# Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.



A99.9 F7622Uf

United States Department of Agriculture

Forest Service

Northeastern Research Station

Resource Bulletin NE-162





# Pulpwood Production and Consumption in the Northeast – 2001

Iris C. Baker Bruce G. Hansen Melody S. Akers



#### **Abstract**

This study reports a decrease in pulpwood production by more than 18 percent in the 13 Northeastern states from 1997 to 2001. Pulp production comprised 6.1 million cords of roundwood and almost 1.7 million cords of wood fiber from mill residues. Consumption of pulpwood at mills in the Northeast declined about 7.5 percent during the same period, to 8.8 million cords. Harvesting of trees (roundwood) for pulp was most intense in Maine, where an average 16.6 cubic feet of wood was harvested per acre of timberland in 2001.

#### **The Authors**

IRIS BAKER is a research forester with the USDA Forest Service, Northeastern Research Station in Princeton, WV. She received a B.S. degree in forestry management and a M.B.A. from Alabama Agricultural and Mechanical University, Normal, AL. She joined the Forest Service in 1995.

Bruce Hansen is an economist and Project Leader with the USDA Forest Service, Northeastern Research Station in Princeton, WV. He received a B.S. in economics from Concord College, Athens, WV; and an M.B.A. and Ph.D. in wood science and forest products marketing from Virginia Polytechnic Institute and State University at Blacksburg, VA. He began his career with the Forest Service in 1968.

Melody Akers is a computer specialist with the USDA Forest Service, Northeastern Research Station in Princeton, WV. She received a B.S. degree in secondary education with a specialization in mathematics from Bluefield State College, Bluefield, WV, in 1989. She holds an A.S. in computer science from the same institution. She joined the Forest Service in 2001.

Manscript received for publication 2 March 2004.

Published by:
USDA FOREST SERVICE
11 CAMPUS BLVD SUITE 200
NEWTOWN SQUARE PA 19073-3294

February 2005

For additional copies: USDA Forest Service Publications Distribution 359 Main Road Delaware, OH 43015-8640 Fax: (740)368-0152

## **Highlights**

- ◆ Pulpwood production in the Northeast decreased more than 18 percent from 1997 to 2001.
- Pulpwood production in the New England states decreased by less than 1 percent from 1997 to 2001, however if Maine were excluded production would have decreased by nearly one-third.
- ♦ Maine's pulpwood production accounted for 54.1 percent of the Northeastern region's total.
- ♦ West Virginia's pulpwood production increased by 175.7 percent from 1997 to 2001.
- ◆ Pennsylvania and New York's pulpwood production decreased by 21.9 percent and 41.7 percent, respectively.
- Pulpwood imported into the region accounted for 10.8 percent of the total consumption.
- ♦ Maine pulpmills consumed nearly 1.1 million more cords than were harvested in the state.
- ♦ Harvesting was most intense in Maine, where the pulpwood harvest averaged 16.6 cubic feet per acre of timberland in 2001.



#### Introduction

This report summarizes data collected from seven engineered wood product (EWP) mills and 24 pulp and paper mills (PPM) operating in the 13-state Northeastern region (Fig. 1) in 2001. The data were obtained by canvassing all PPM and EWP mills in the Northeast that received roundwood and manufacturing residues to produce pulp for paper and a variety of engineered wood products such as oriented strand board or OSB. Roundwood and manufacturing residues shipped outside the Northeast were tracked by exchanging information with other Forest Service Research Stations and from secondary data sources.

The purpose of this report is to estimate roundwood production within the Northeast region. PPM and EWP mills within the region were surveyed to determine the origin of the roundwood and manufacturing residues used in their respective operations. The state of origin may be the state in which the recipient is located, other states within the region, states outside the region, and/or Canada. Using mill receipts to estimate production fails to account for roundwood produced in a state or states in the region that is sent directly to buyers in a state, states outside the region, or in Canada. These shipments are estimated through information collected in TPO assessments conducted by other Forest Service Research Stations and from secondary data as available.

Respondent mills are asked to provide information on all sources, so along with receipts from states within the region, the mill surveys record receipts from states outside the region and Canada.

# Estimating Production in 1998, 1999, and 2000

The previous pulpwood survey was conducted in 1997; data were unavailable for the years 1998, 1999, and 2000. We estimated roundwood production and receipts and receipts of manufacturing residues for these years. The estimation procedure relied on actual data from 1997 (the previous survey period) and from 2001 (the current survey period).

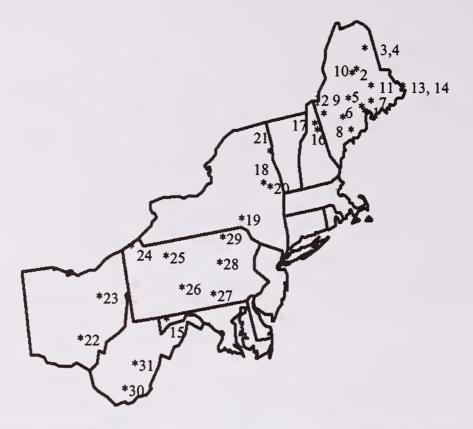
Thirty of the 31 mills surveyed provided information about 2001 receipts by country, state, or county of origin. We estimated 2001 receipts of the nonrespondent mills using Lockwood Post's Directory (2002). Of the 30 mills responding to the survey, 19 provided roundwood receipt estimates for the 1998, 1999, and 2000, as well as actual data from 2001. It was necessary to estimate roundwood receipts for the other 11 mills from their 2001 receipts information only.

Receipts for the missing years were estimated as follows: 2001 roundwood receipts for all mills were summed. A second sum for 2001 was derived for those 19 mills providing data for 1998, 1999, and 2000. Then a ratio was derived by dividing the 2001 total for all mills by the 2001 total for mills providing data for 1998, 1999, and 2000 as well. The sums for 1998, 1999, and 2000 were multiplied by this ratio to derive estimates of total roundwood receipts for these years.

Many mills obtain a portion of their fiber from manufacturing residues or byproducts. Information on manufacturing residues for 1998, 1999, and 2000, were sparse and not reliable, so these also had to be estimated. Estimates were developed from the relationship between roundwood receipts and manufacturing residue receipts in 1997 (the last year in the previous survey) and in 2001. Since ratios differed in the two periods, a graduated scale was developed for estimating the intervening years by apportioning the overall percentage difference equally over the period.

Some mills did not use manufacturing residues in 2001 and it was assumed that these mills used roundwood and roundwood chips only. No attempt was made to develop estimates for manufacturing residues for these mills.

Twenty-seven of the 30 respondents provided receipt information based on green tons. Three mills reported receipts in standard cord equivalents. Thus, we converted green tons into standard cords for 27 respondents and converted standard cords into green tons for three respondents. The mill for which production was



- 1. Bucksport, ME International Paper Co.
- 2. E. Millinocket, ME Great Northern Paper, Inc.
- 3. Easton, ME J M Huber Corp.
- 4. Easton, ME Louisiana Pacific, Inc.
- 5. Hinckley, ME S.D. Warren
- 6. Jay, ME-International Paper Co.
- 7. Lincoln, ME Lincoln Pulp and Paper Co.
- 8. Lisbon Falls, ME Masonite Corp.
- 9. Madison, ME Madison Paper Industries
- 10. Millinocket, ME Great Northern Paper, Inc.
- 11. Old Town, ME Georgia-Pacific Corp.
- 12. Rumford, ME Mead Westvaco Papers Group
- 13. Woodland, ME Domtar
- 14. Woodland, ME Georgia-Pacific Corp.
- 15. Luke, MD Westvaco Corp.
- 16. Berlin, NH Pulp and Paper of America

- 17. Groveton, NH Groveton Paperboard, Inc.
- 18. Corinth, NY International Paper Co.
- 19. Deposit, NY Norbord Industries
- 20. Glens Falls, NY Finch-Pruyn and Company
- 21. Ticonderoga, NY International Paper Co.
- 22. Chillicothe, OH The Mead Corp.
- 23. Coshocton, OH Smurfit-Stone
- 24. Erie, PA International Paper Co.
- 25. Johnsonburg, PA Willamette Industries, Inc.
- 26. Roaring Spring, PA Appleton Papers, Inc.
- 27. Spring Grove, PA Glatfelter Pulpwood Co.
- 28. Sunbury, PA Knight-Celotex LLC
- 29. Towanda, PA Masonite Corp.
- 30. Mt. Hope, WV Georgia-Pacific Corp.
- 31. Sutton, WV Weyerhaeuser

Figure 1.—Locations and names of mills receiving pulpwood in the Northeastern states, 2001.1

estimated using Lockwood Post's Directory (2002) also required conversion of cords to green tons.

The most recent survey report (Widmann and Griffith 1999)<sup>1</sup> provided conversion factors for six species or species groups. We used these same factors to convert

current data. The aggregated conversion factors for most respondents differed because each had a unique species mix. Conversions ranged from 0.357 cords per green ton for oak/hickory to 0.556 cords per green ton for spruce-fir. The simple average for all 30 mills was 0.449 cords

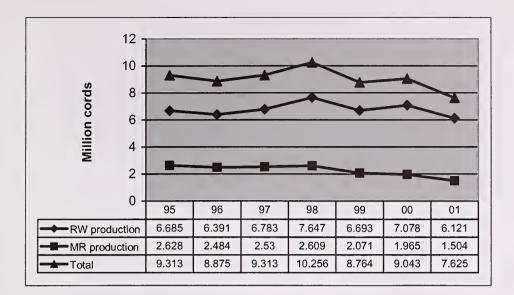


Figure 2.—Roundwood (RW) and manufacturing residue (MR) production 1995 through 2001.

per green ton. The weighted average was 0.441 cords per green ton.

Because most respondents reported mill receipts in green tons, tables have been prepared using both units, green tons and cords. Where cords are reported, the table is numbered CD1, CD2, etc., where green tons are reported the tables are numbered GT1, GT2, etc.

#### **Production**

In 1991, pulpwood production was about 9 million cords and was increasing, according to Widmann and Griffith (1999). Since the mid 1990s, pulpwood production has been cyclical, increasing one year,

<sup>1</sup>Six mills listed in the previous report, (Widmann and Griffith 1999) were either closed or had been sold. They are:

S. D. Warren, Westbrook, ME Champion International, Deferiet, NY Lyons Falls Pulp and Paper, Lyons Falls, NY Certainteed Corporation, Milan, OH Proctor and Gamble, Mehoopany, PA Jefferson Smurfit, Circleville, OH

Five new facilities, not included in the previous report, are in operation, and are included in Figure 1. They are:

J.M. Huber Corporation, Easton, ME Louisiana Pacific, Easton, ME Domtar, Woodland, ME Georgia Pacific Corporation, Mt. Hope, WV Weyerhaeuser, Sutton, WV declining the next, with overall production declining about 3 percent annually since 1995.

In 2001, pulpwood production of roundwood, roundwood chips, and manufacturing residues for the 13 Northeastern states was more than 7.6 million cords (Tables CD1, GT1, Fig. 2), an 18.1 percent decrease from 1997.

The downward trend in the Northeast is more severe than the decline reported for the United States. The Annual Pulpwood Statistics Summary Report 1997-2001, published by the Forest Resources Association Inc. (2001), reports a 5.5 percent decline in pulpwood production nationwide from 1997 to 2001 to the lowest level since 1986.

During 2001, roundwood comprised of 80.3 percent of total production and manufacturing residues 19.7 percent (Tables CD1, GT1, Fig. 2). Roundwood includes bolts, logs, and whole-tree chips generated from harvesting trees. In the Northeast, most of roundwood used for pulp comes from poor quality trees or from the branches and tops of trees harvested for sawlogs. Unlike conditions in the south, the Northeast grows little pulpwood in plantations.

Manufacturing residues are produced when logs are converted into lumber and other products. These residues are usually composed of chips made from sawmill slabs and edgings, veneer cores, and smaller amounts of chipped pallets. Even some sawdust may find its way into the pulp mills.

Until recently, there have been few alternative markets for the low quality wood used to make pulp. However, in the past decade, several EWP mills have begun operations in the region. These mills prefer the light hardwoods, and usually do not compete substantially with pulp mills whose demands have traditionally focused on the hard hardwoods.

#### Roundwood

In 2001, 6.1 million cords of roundwood was produced for pulpwood —0.6 million cords below 1997 totals (Tables CD2, GT2). Softwood roundwood production decreased by 485,800 cords, or 19.1 percent, since 1997. The approximate 2 million cords of softwood accounted for 33.6 percent of the total roundwood production. Hardwood roundwood accounted for 66.4 percent in 2001 and decreased by 175,500 cords (4.1 percent) from 1997 to about 4.1 million cords. Maine led the Northeast in total roundwood production with 3.3 million cords; Maine's production was comprised of 1.2 million cords of softwood and 2.1 million cords of hardwood. West Virginia was a distant second with 732,100 cords. Pennsylvania and New York followed with 632,700 and 429,400 cords, respectively (Tables CD6, GT6).

In 2001, roundwood production in New England (Maine, Vermont, New Hampshire, Massachusetts, Rhode Island and Connecticut) comprised 54.8 percent of the Northeast's roundwood total, despite the fact that New England's roundwood production decreased 14.6 percent from 1997 (Tables CD2, GT2) . Hardwood production accounted for 61.6 percent of New England's roundwood production, with the remainder coming from softwood.

## **Pulpwood from Manufacturing Residues**

In 2001, pulpwood chip production in the Northeast from manufacturing residues was more than 1.5 million cords (Tables CD3, GT3); 67.7 percent of these residues were produced from hardwood species (Tables CD3, GT3). Maine had the largest pulpwood chip production

from manufacturing residues (446,300 cords), accounting for nearly 30 percent of the region's total (Table 2). In New England, residue use declined 45.2 percent from 1997, with the most significant declines in Vermont (90.4 percent) and Maine (49.5 percent). In Ohio, manufacturing residues accounted for 47.4 percent (297,500 cords) of the pulpwood produced in the state (Tables CD2, GT2).

#### Consumption

From 1995 to 1997, Northeast pulpwood receipts were relatively stable at 9.5 million cords (Widmann and Griffith 1999). However by 2001, receipts had decreased to 8.8 million cords—a decline of nearly 8 percent (Tables CD4, GT4 and CD5, GT5). Northeast pulpmills received nearly 2.3 million cords of softwood roundwood, 4.6 million cords of hardwood roundwood, and the equivalent of nearly 1.9 million cords of produced from manufacturing residues (Tables CD4, GT4 and CD5, GT5). Pulpwood roundwood imported into the region accounted for 10.8 percent of the receipts (Tables CD14, GT14 and CD16, GT16) and these imports exceeded exports by 1.135 million cords (Tables CD15, GT15). Maine consumed 1.25 million cords more than were produced in state including 599,900 cords of roundwood and the equivalent of 113,200 cords of residue from Canada (Tables CD16, GT16 and CD17, GT17). All of Maine's (612,400 cords) and Vermont's (178,800 cords) roundwood exports out of the region went to Canada. Overall, Canada accounted for 65 percent of the region's total exports of 867,700 cords (Tables CD18, GT18).

### Harvesting Intensity

The average annual pulpwood harvest per acre of timberland in 2001 was 6.0 cubic feet, a decrease from the 1997 average of 6.7 cubic feet (Tables CD19, GT19). The greatest harvest rate for the Northeast was reported in Maine and averaged 16.6 cubic feet of roundwood per acre of timberland. Maryland, New Hampshire, and West Virginia averaged 6.2, 5.3, and 5.2 cubic feet per acre, respectively. Rhode Island, Connecticut, and Massachusetts had the lowest harvest rates, with 0.1, 0.2, and 0.5 cubic feet per acre, respectively.

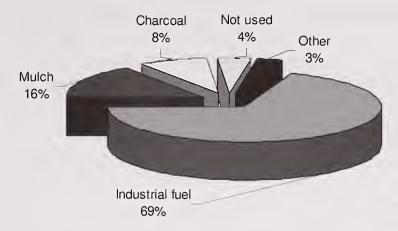


Figure 3.—Hardwood bark use.



Figure 4.—Softwood bark use.

#### **Bark Residue Utilization**

PPM mills collectively produced an estimated 1.47 million tons of bark residue in 2001. The EWP mills combined to produce 0.27 million tons. All seven EWP mills provided information on their bark residue disposal while only 15 of the 23 PPM mills did so. Product distributions for bark use were based on those who responded fully.

PPM mills accounted for 84 percent of the residue and EWP facilities just 16 percent. The bark species mix was two-thirds hardwood and one-third softwood. Industrial fuel accounted for 69 percent of the hardwood bark use followed by mulch and bedding (16 percent), and charcoal production (8 percent). Only 4 percent was reported as not being used (Fig. 3).

Uses of softwood bark were industrial fuel (59 percent), mulch and bedding material (29 percent), and charcoal (8 percent); 4 percent was unused (Fig. 4).

#### Literature Cited

Lockwood-Post's Directory of the Pulp, Paper and Allied Trades. 2002. New York: Paperloop Publications.

Forest Resources Association, Inc. 2001. **Annual Pulpwood Statistics Summary Report 1997-2001.**Rockville, MD: Forest Resources Association. 38 p.

Widmann, Richard H.; Griffith, Douglas M. 1999.
Pulpwood production in the Northeast—1997.
Resource. Bull. NE-144. Radnor, PA: U.S.
Department of Agriculture, Forest Service,
Northeastern Research Station. 20 p.

#### **APPENDIX**

#### **Definition of Terms**

Cord - See Standard cord.

Cord equivalent – A unit of measure applied to forms of wood other than roundwood, such as chips, slabs, edgings, and other manufacturing residues, and equal to 85 ft<sup>3</sup> of solid wood, or 1 cord.

Manufacturing residues – Wood materials, such as sawmill slabs and edgings, sawdust, veneer clippings and cores, post and pole trimming, and pulp screening generated from the manufacture of roundwood products.

*Pulpwood* – Roundwood, whole-tree chips, or manufacturing residues that are used for production of wood pulp.

Pulpwood production – Roundwood and manufacturing plant residues that are used for the production of wood pulp.

Pulpwood receipts – Pulpwood received at wood-pulp mills. These can originate from outside the state or region.

Pulpwood imports – Pulpwood receipts originating from outside the Northeast (13-state region).

Roundwood products – Logs, bolts, total-tree chips, mine timbers, fenceposts, poles, and similar timber products generated by harvesting trees for industrial or consumer use.

Standard cord – A unit of measure for stacked bolts of wood, encompassing 128 ft³ of wood, bark, and air space. In the Northeast, the measure refers to a stack of wood containing 85 ft³ or 2.41 m³, of solid wood. A standard cord commonly used in firewood marketing.

Whole-tree chip – Unbarked wood chips generated from the aboveground portion of a tree, including bolewood, limbs, and leaves.

#### **Conversion Factors**

#### Conversion Factors Used for Green Roundwood

1 ton spruce-fir = 0.5556 cord

1 ton hemlock-tamarack = 0.5000 cord

1 ton pine (New England, New York, and Canada) = 0.5263 cord

1 ton aspen — yellow-poplar = 0.5263 cord

1 ton oak-hickory = 0.3571 cord

1 ton other hardwoods = 0.3846 cord

## Conversion Factors Used to Estimate Bark Residue— Hardwood pulpwood

4.0678 tons per Mcf

85 cf per cord

13.1579 cords per Mcf

0.2499 tons per cord

# Conversion Factors Used to Estimate Bark Residue—Softwood pulpwood

3.4234 tons per Mcf

85 cf per cord

13.6986 cords per Mcf

0.3092 tons per cord

## Conversion Factors Used to Estimate Bark Residue— Hardwood panel products

0.5535 tons per Mbf

2.5 cords per Mbf

0.2214 tons per cord

# Conversion Factors Used to Estimate Bark Residue—Softwood panel products

0.4005 tons per Mbf

2.5 cords per Mbf

0.1602 tons per cord

| Index to Tables                                    | CD14. Production and receipts of roundwood in the   |
|----------------------------------------------------|-----------------------------------------------------|
| CD1. Total prodution of pulpwood in the Northeast, | Northeast, by state and type, 2001 21               |
| by state and source, 20019                         |                                                     |
|                                                    | CD15. Balance of pulpwood roundwood and residue     |
| CD2. Pulpwood production from roundwood in the     | shipments into and out of states, 2001 21           |
| Northeast by type and state, 20019                 |                                                     |
|                                                    | CD16. Imports of roundwood into the Northeast,      |
| CD3. Pulpwood chip production from manufacturing   | by state (or province) of origin, state of          |
| residues in the Northeast, by state and type,      | consumption, and type, 2001 22                      |
| 2001 10                                            | CD17. Sources of imports of manufacturing residues, |
| CD4. Pulpwood receipts from roundwood in the       | by state and type, 2001                             |
| Northeast, by state and type, 2001                 | by state and type, 2001 22                          |
| 1 to the date of state and type, 2001              | CD18. Exports from the Northeastern region by state |
| CD5. Pulpwood chip receipts from manufacturing     | to other states and Canada, 2001                    |
| residues in the Northeast, by state and type,      | 25                                                  |
| 2001 11                                            | CD19. Estimated average annual pulpwood             |
|                                                    | roundwood removals per acre of timberland           |
| CD6. Pulpwood production from roundwood in the     | in the Northeast, 2001                              |
| Northeast, by state and type, 2001 11              |                                                     |
|                                                    | GT1. Total production of pulpwood in the Northeast, |
| CD7. Pulpwood production from roundwood in         | by state and source, 2001                           |
| Northern New England, by county, state, and        |                                                     |
| type, 2001 12                                      | GT2. Pulpwood production from roundwood in the      |
|                                                    | Northeast by type and state, 2001                   |
| CD8. Pulpwood production from roundwood in         |                                                     |
| southern New England, by state, county and         | GT3. Pulpwood chip production from manufacturing    |
| type, 2001                                         | residues, by state and type, 2001                   |
| CD9. Pulpwood production from roundwood in         | GT4. Pulpwood receipts from roundwood in the        |
| New York, by county and type, 2001 14              | Northeast, by state and type, 2001                  |
| Thew fork, by county and type, 200114              | Two theast, by state and type, 2001 20              |
| CD10. Pulpwood production from roundwood in        | GT5. Pulpwood chip receipts from manufacturing      |
| Delaware, Maryland, and New Jersey, by             | residues in the Northeast, by state and type,       |
| county and type, 2001                              | 2001                                                |
|                                                    |                                                     |
| CD11. Pulpwood production from roundwood in        | GT6. Pulpwood production from roundwood in the      |
| Pennsylvania, by county and type, 2001 16          | Northeast, by state and type, 2001                  |
|                                                    |                                                     |
| CD12. Pulpwood production from roundwood in        | GT7. Pulpwood production from roundwood in          |
| West Virginia, by county and type, 2001 18         | Northern New England, by county, state, and         |
|                                                    | type, 2001                                          |
| CD13. Pulpwood production from roundwood in        |                                                     |
| Ohio, by county and type, 2001 19                  |                                                     |

| GT8. Pulpwood production from roundwood in  | GT14. Production and receipts of roundwood in the   |
|---------------------------------------------|-----------------------------------------------------|
| southern New England, by state, county and  | Northeast, by state and type, 2001 37               |
| type, 2001                                  |                                                     |
|                                             | GT15. Balance of pulpwood roundwood and residue     |
| GT9. Pulpwood production from roundwood in  | shipments into and out of states, 2001 37           |
| New York, by county and stype, 2001 30      |                                                     |
|                                             | GT16. Imports of roundwood into the Northeast,      |
| GT10. Pulpwood production from roundwood in | by state (or province) of origin, state of          |
| Delaware, Maryland, and New Jersey, by      | consumption, and type, 2001 38                      |
| county and type, 2001                       |                                                     |
|                                             | GT17. Sources of imports of manufacturing residues, |
| GT11. Pulpwood production from roundwood in | by state and type, 2001                             |
| Pennsylvania, by county and type, 2001 32   |                                                     |
|                                             | GT18. Exports from the Northeast by state to        |
| GT12. Pulpwood production from roundwood in | other states and Canada, 2001                       |
| West Virginia, by county and type, 2001 34  |                                                     |
|                                             | GT19. Estimated average annual pulpwood             |
| GT13. Pulpwood production from roundwood in | roundwood removals per acre of timberland           |
| Ohio, by county and type, 2001 35           | in the Northeast, 2001                              |
|                                             |                                                     |

Table CD1.—Total production of pulpwood in the Northeast, by state and source, 2001

| State         | Roundwood | Manufacturing               | Total   |
|---------------|-----------|-----------------------------|---------|
|               |           | residue                     |         |
|               |           | - Thousand standard cords - |         |
| Connecticut   | 4.0       | 0.0                         | 4.0     |
| Delaware      | *         | 0.0                         | *       |
| Maine         | 3310.2    | 446.3                       | 3,756.5 |
| Maryland      | 176.4     | 75.2                        | 251.6   |
| Massachusetts | 18.6      | 1.4                         | 20.0    |
| New Hampshire | 285.8     | 157.4                       | 443.2   |
| New Jersey    | 17.2      | 2.6                         | 19.8    |
| New York      | 429.4     | 99.1                        | 528.5   |
| Ohio          | 329.8     | 297.5                       | 627.3   |
| Pennsylvania  | 632.7     | 264.1                       | 896.8   |
| Rhode Island  | 0.6       | 0.0                         | 0.6     |
| Vermont       | 184.5     | 8.0                         | 192.5   |
| West Virginia | 732.1     | 152.5                       | 884.6   |
| Total         | 6,121.4   | 1,504.1                     | 7,625.5 |

<sup>\*</sup> less than 50 cords

Table CD2.—Pulpwood production from roundwood in the Northeast by type and state, 2001

|               | Ту       | pe                      |         |  |  |  |
|---------------|----------|-------------------------|---------|--|--|--|
| State         | Softwood | Hardwood                | Total   |  |  |  |
|               |          | Thousand standard cords |         |  |  |  |
| Connecticut   | 3.3      | 0.7                     | 4.0     |  |  |  |
| Delaware      | *        | *                       | *       |  |  |  |
| Maine         | 1,209.0  | 2,101.2                 | 3,310.2 |  |  |  |
| Maryland      | 86.0     | 90.3                    | 176.3   |  |  |  |
| Massachusetts | 17.0     | 1.7                     | 18.7    |  |  |  |
| New Hampshire | 133.1    | 152.7                   | 285.8   |  |  |  |
| New Jersey    | 16.7     | 0.5                     | 17.2    |  |  |  |
| New York      | 203.7    | 225.7                   | 429.4   |  |  |  |
| Ohio          | 50.0     | 279.9                   | 329.9   |  |  |  |
| Pennsylvania  | 146.1    | 486.1                   | 632.2   |  |  |  |
| Rhode Island  | 0.6      | 0.0                     | 0.6     |  |  |  |
| Vermont       | 98.9     | 85.7                    | 184.6   |  |  |  |
| West Virginia | 91.7     | 640.4                   | 732.1   |  |  |  |
| Total         | 2,056.1  | 4,064.9                 | 6,121.0 |  |  |  |

<sup>\*</sup> less than 50 cords

Table CD3.—Softwood and hardwood pulpwood chip production from manufacturing residues in the Northeast, by state and type, 2001

|               | Ту       |          |         |
|---------------|----------|----------|---------|
| State         | Softwood | Hardwood | Total   |
|               | T        |          |         |
| Maine         | 336.4    | 109.9    | 446.3   |
| Maryland      | 41.0     | 34.1     | 75.1    |
| Massachusetts | 0.3      | 1.1      | 1.4     |
| New Hampshire | 88.2     | 69.2     | 157.4   |
| New Jersey    | 0.0      | 2.6      | 2.6     |
| New York      | 1.3      | 97.7     | 99.0    |
| Ohio          | 1.5      | 296.0    | 297.5   |
| Pennsylvania  | 8.2      | 255.9    | 264.1   |
| Vermont       | 6.2      | 1.8      | 8.0     |
| West Virginia | 2.4      | 150.1    | 152.5   |
| Total         | 485.5    | 1,018.4  | 1,503.9 |

Table CD4.—Pulpwood receipts from roundwood in the Northeast, by state and type, 2001

|                                     | Ty                      |          |         |  |  |
|-------------------------------------|-------------------------|----------|---------|--|--|
| State                               | Softwood                | Hardwood | Total   |  |  |
|                                     | Thousand standard cords |          |         |  |  |
| Maine/New Hampshire <sup>a</sup>    | 1,506.1                 | 2,865.2  | 4,371.3 |  |  |
| Maryland/West Virginia <sup>a</sup> | 136.8                   | 783.0    | 919.8   |  |  |
| New York                            | 267.0                   | 218.1    | 485.1   |  |  |
| Ohio                                | 73.8                    | 301.6    | 375.4   |  |  |
| Pennsylvania                        | 287.0                   | 470.0    | 757.0   |  |  |
| Total                               | 2,270.7                 | 4,637.9  | 6,908.6 |  |  |

<sup>&</sup>lt;sup>a</sup>States have been combined to avoid individual disclosure.

Table CD5.—Pulpwood chip receipts from manufacturing residues in the Northeast, by state and type, 2001

|                                     | T                       |          |         |  |  |  |
|-------------------------------------|-------------------------|----------|---------|--|--|--|
| State                               | Softwood                | Hardwood | Total   |  |  |  |
|                                     | Thousand standard cords |          |         |  |  |  |
| Maine/New Hampshire <sup>a</sup>    | 483.1                   | 227.1    | 710.2   |  |  |  |
| Maryland/West Virginia <sup>a</sup> | 9.9                     | 111.0    | 120.9   |  |  |  |
| New York                            | 1.4                     | 81.6     | 83.0    |  |  |  |
| Ohio                                | 4.8                     | 392.9    | 397.7   |  |  |  |
| Pennsylvania                        | 42.7                    | 308.7    | 351.4   |  |  |  |
| Total                               | 514.9                   | 1,121.3  | 1,663.2 |  |  |  |

<sup>&</sup>lt;sup>a</sup>States have been combined to avoid individual disclosure.

Table CD6.—Pulpwood production from roundwood in the Northeast, by state and type, 2001

|               |            |          | Softwood    |             |           |           |         |
|---------------|------------|----------|-------------|-------------|-----------|-----------|---------|
| State         | Spruce/fir | Hemlock/ | Mixed       | Pine        | Total     | Total     |         |
|               |            | Tamarack | softwoods   |             | softwoods | hardwoods | Total   |
|               |            |          | – – – Thous | and standar | d cords   |           |         |
| Connecticut   | *          | 3.3      | 0.0         | *           | 3.3       | 0.7       | 4.0     |
| Delaware      | 0.0        | 0.0      | 0.0         | *           | 0.0       | *         | *       |
| Maine         | 600.9      | 312.3    | 22.8        | 272.8       | 1,208.8   | 2,101.2   | 3,310.1 |
| Maryland      | 0.0        | 0.0      | 16.2        | 69.9        | 86.1      | 90.3      | 176.4   |
| Massachusetts | 0.2        | 8.3      | *           | 8.5         | 17.0      | 1.7       | 18.7    |
| New Hampshire | 55.7       | 21.9     | 2.8         | 52.7        | 133.1     | 152.7     | 285.8   |
| New Jersey    | 0.0        | 0.0      | 0.0         | 16.7        | 16.7      | 0.5       | 17.2    |
| New York      | 6.7        | 90.5     | 9.7         | 96.9        | 203.8     | 225.7     | 429.4   |
| Ohio          | 0.0        | 0.0      | 5.3         | 44.7        | 50.0      | 279.9     | 329.9   |
| Pennsylvania  | 0.0        | 21.3     | 26.9        | 97.9        | 146.1     | 486.4     | 632.7   |
| Rhode Island  | *          | 0.0      | 0.0         | *           | 0.6       | 0.0       | 0.6     |
| Vermont       | 28.2       | 22.2     | 2.8         | 45.7        | 98.9      | 85.7      | 184.5   |
| West Virginia | 0.0        | 0.0      | 49.7        | 42.0        | 91.7      | 640.4     | 732.1   |
| Total         | 691.7      | 479.7    | 136.1       | 747.7       | 2,056.1   | 4,065.2   | 6,121.4 |

<sup>\*</sup> less than 50 cords

Table CD7.—Pulpwood production from roundwood in Northern New England, by county, state, and type, 2001

|               |            |                      | Softwood |                    |                    |                    |                      |
|---------------|------------|----------------------|----------|--------------------|--------------------|--------------------|----------------------|
| County        | Spruce/fir | Hemlock/<br>Tamarack | Pine     | Mixed<br>softwoods | Total<br>softwoods | Total<br>hardwoods | Total all<br>species |
| MAINE         |            |                      |          | Thousand stand     | lard cords         |                    |                      |
| Androscoggin  | 1.4        | 5.1                  | 16.4     | 0.8                | 23.6               | 25.5               | 49.1                 |
| Aroostock     | 29.2       | 12.6                 | 0.5      | 0.8                | 42.3               | 329.3              | 371.6                |
| Cumberland    | 1.1        | 13.8                 | 25.8     | 2.0                | 42.5               | 8.4                | 50.9                 |
| Franklin      | 40.9       | 17.8                 | 9.7      | 1.6                | 68.0               | 115.3              | 183.3                |
| Hancock       | 13.3       | 5.0                  | 5.8      | 1.4                | 23.6               | 76.7               | 100.3                |
| Kennebec      | 4.0        | 13.6                 | 23.2     | 2.3                | 42.2               | 26.1               | 68.3                 |
| Knox          | 2.2        | 1.3                  | 2.7      | 0.2                | 6.1                | 3.0                | 9.1                  |
| Lincoln       | 2.9        | 2.1                  | 10.6     | 0.7                | 15.1               | 5.2                | 20.3                 |
| Oxford        | 45.8       | 46.9                 | 100.8    | 2.7                | 196.0              | 159.8              | 355.8                |
| Penobscot     | 64.1       | 27.9                 | 12.6     | 3.5                | 101.5              | 304.9              | 406.4                |
| Piscataquis   | 52.1       | 9.1                  | 2.5      | 1.0                | 52.0               | 182.1              | 234.1                |
| Sagadahoc     | 0.3        | 1.0                  | 3.7      | 0.2                | 5.0                | 2.2                | 7.2                  |
| Somerset      | 83.9       | 28.2                 | 12.3     | 1.3                | 107.2              | 92.8               | 200.0                |
| Waldo         | 7.5        | 4.6                  | 16.4     | 0.5                | 25.7               | 8.6                | 34.3                 |
| Washington    | 41.9       | 6.3                  | 4.4      | 2.4                | 49.3               | 163.4              | 212.7                |
| York          | 0.1        | 6.3                  | 22.4     | 1.2                | 30.0               | 2.7                | 32.7                 |
| Unknown       | 210.3      | 110.8                | 3.0      | 0.0                | 324.1              | 80.5               | 404.6                |
| Total         | 601.0      | 312.4                | 272.8    | 22.6               | 1,208.8            | 2,101.3            | 3,310.1              |
| NEW HAMPSHIRE |            |                      |          |                    |                    |                    |                      |
| Belknap       | 0.0        | *                    | 0.6      | *                  | 0.6                | 3.2                | 3.8                  |
| Carroll       | *          | 2.8                  | 2.4      | 0.4                | 5.7                | *                  | 5.7                  |
| Cheshire      | *          | 0.7                  | 0.8      | *                  | 1.5                | *                  | 1.5                  |
| Coos          | 14.3       | *                    | 0.7      | 0.8                | 15.8               | 55.3               | 71.1                 |
| Grafton       | 0.9        | 0.6                  | 1.6      | 0.3                | 3.4                | 2.2                | 5.7                  |
| Hillsborough  | 0.0        | *                    | 1.1      | *                  | 1.1                | *                  | 1.1                  |
| Merrimack     | *          | 7.5                  | 5.4      | 0.3                | 13.1               | 1.2                | 14.3                 |
| Rockingham    | *          | 0.6                  | 4.7      | 0.6                | 6                  | 1.3                | 7.3                  |
| Stafford      | *          | *                    | 3.2      | *                  | 3.2                | *                  | 3.2                  |
| Sullivan      | *          | 0.7                  | 20.6     | 0.3                | 21.6               | 2.3                | 23.9                 |
| Unknown       | 39.9       | 8.3                  | 11.7     | 0.0                | 59.9               | 86                 | 145.8                |
| Total         | 55.1       | 21.2                 | 52.8     | 2.7                | 131.9              | 151.5              | 283.4                |
|               | 77.1       | 21.2                 |          |                    | 131.7              | 171.7              |                      |
| VERMONT       | 0.0        | 0.2                  | 2.7      | 0.0                | 2.0                | 0.3                | 3.2                  |
| Addison       | 0.0        | 0.2                  | 2.7      | 0.0                | 2.9<br>2.0         |                    | 6.1                  |
| Bennington    |            | 0.2                  | 1.8      | 0.0                |                    | 4.1                |                      |
| Caledonia     | 4.3        | 0.5                  | 4.8      | 0.6                | 10.2               | 2.7                | 12.9                 |
| Chittenden    |            | 0.2                  | 0.5      | 0.0                | 0.7                | 0.3                | 1.0                  |
| Essex         | 3.2        | 0.4                  | 0.4      | 0.2                | 4.2                | 27.7               | 31.9                 |
| Franklin      | 0.1        | 2.8                  | 3.6<br>* | 0.0                | 6.6                | 0.7                | 7.3                  |
| Grand Isle    | 0.0        | 0.0                  |          | 0.0                | 0.0                | 0.0                | 0.0                  |
| Lamoille      | 0.5        | 1.4                  | 1.8      | 0.2                | 3.9                | 1.3                | 5.2                  |
| Orange        | 0.6        | 1.9                  | 3.3      | 1.0                | 6.8                | 0.9                | 7.7                  |
| Orleans       | 4.2        | 4.9                  | 1.5      | 0.2                | 10.8               | 3.1                | 14.0                 |
| Rutland       | *          | 1.0                  | 6.5      |                    | 7.5                | 1.0                | 8.6                  |
| Washington    | 0.7        | 0.5                  | 3.4      | 0.5                | 5.1                | 0.9                | 6.0                  |
| Windham       | 0.1        | 0.8                  | 4.0      | 0.0                | 4.9                | 0.8                | 5.7                  |
| Windsor       | 0.1        | 1.1                  | 2.8      | 0.1                | 4.1                | 0.1                | 4.2                  |
| Unknown       | 14.4       | 6.4                  | 8.3      | 0.0                | 29.1               | 41.6               | 70.8                 |
| Total         | 28.1       | 22.3                 | 45.6     | 2.8                | 98.8               | 85.7               | 184.5                |

<sup>\*</sup> less than 125 green tons. Counties with no reported production are not listed.

Table CD8.—Pulpwood production from roundwood in southern New England, by state, county and type, 2001

|               |            |                      | Softwood       |                    |                 |                    |                   |
|---------------|------------|----------------------|----------------|--------------------|-----------------|--------------------|-------------------|
| County        | Spruce/fir | Hemlock/<br>Tamarack | Pine           | Mixed<br>softwoods | Total softwoods | Total<br>hardwoods | Total all species |
| CONNECTICUT   |            |                      | <b></b> - Thou | sand standard o    | cords           |                    |                   |
| Fairfield     | 0.0        | 0.0                  | 0.0            | 0.0                | 0.0             | 0.0                | 0.0               |
| Hartford      | 0.0        | 1.3                  | 0.0            | 0.0                | 1.3             | 0.0                | 1.3               |
| Litchfield    | 0.0        | 0.1                  | 0.0            | 0.0                | 0.1             | 0.0                | 0.1               |
| New Haven     | 0.0        | 0.1                  | 0.0            | 0.0                | 0.1             | 0.0                | 0.1               |
| Tolland       | 0.0        | 0.1                  | 0.0            | 0.0                | 0.1             | 0.0                | 0.1               |
| Windham       | 0.0        | 0.1                  | 0.0            | 0.0                | 0.1             | 0.0                | 0.1               |
| New London    | 0.0        | 0.0                  | 0.0            | 0.0                | 0.0             | 0.0                | 0.0               |
| Unknown       | *          | 1.6                  | *              | 0.0                | 1.6             | 0.7                | 2.3               |
| Total         | *          | 3.3                  | *              | 0.0                | 3.3             | 0.7                | 4.0               |
| MASSACHUSETTS |            |                      |                |                    |                 |                    |                   |
| Berkshire     | 0.0        | 0.6                  | *              | 0.0                | 0.6             | 0.3                | 0.9               |
| Essex         | 0.0        | 0.0                  | *              | 0.0                | *               | *                  | *                 |
| Franklin      | 0.0        | 0.4                  | 0.0            | 0.0                | 0.4             | *                  | 0.4               |
| Hampden       | 0.0        | 4.1                  | 0.0            | 0.0                | 4.1             | *                  | 4.1               |
| Worchester    | *          | 0.3                  | 8.0            | *                  | 8.3             | 1.0                | 9.3               |
| Unknown       | 0.1        | 2.9                  | 0.4            | 0.0                | 3.4             | 0.4                | 3.8               |
| Total         | 0.1        | 8.3                  | 8.4            | 0.0                | 16.8            | 1.7                | 18.5              |
| RHODE ISLAND  |            |                      |                |                    |                 |                    |                   |
| Unknown       | *          | 0.0                  | 0.5            | 0.0                | 0.5             | *                  | 0.5               |
| Total         | *          | 0.0                  | 0.5            | 0.0                | 0.5             | *                  | 0.6               |

<sup>\*</sup> less than 50 cords. Counties with no reported production are not listed.

Table CD9.—Pulpwood production from roundwood in New York, by county and type, 2001

|                  |            | S        | Softwood |                 |           |           |             |
|------------------|------------|----------|----------|-----------------|-----------|-----------|-------------|
| County           | Spruce/fir | Hemlock/ | Pine     | Mixed           | Total     | Total     | Total       |
|                  |            | Tamarack |          | softwoods       | softwoods | hardwoods | all species |
|                  |            |          | T        | Thousand standa | ard cords |           |             |
| Albany           | 0.0        | 0.2      | 0.7      | 0.0             | 0.9       | 0.2       | 1.1         |
| Allegheny        | 0.0        | 0.0      | 0.0      | 1.4             | 1.4       | 0.0       | 1.4         |
| Broome           | *          | 1.3      | 4.5      | 0.0             | 5.8       | 1.0       | 6.7         |
| Cattaraugus      | 0.0        | 0.0      | 0.0      | 8.3             | 8.3       | 3.8       | 12.1        |
| Chautauqua       | 0.0        | 0.0      | 0.0      | 0.0             | 0.0       | 1.0       | 1.0         |
| Chemung          | 0.0        | 0.4      | 1.1      | 0.0             | 1.5       | 0.8       | 2.3         |
| Chenango         | 0.1        | 2.0      | *        | 0.0             | 2.2       | 0.0       | 2.2         |
| Clinton          | 0.0        | 2.3      | 5.3      | 0.0             | 7.6       | 13.0      | 20.7        |
| Columbia         | 0.0        | 0.1      | *        | 0.0             | 0.1       | 0.2       | 0.2         |
| Cortland         | 0.0        | *        | 0.0      | 0.0             | 0.0       | 0.6       | 0.6         |
| Delaware         | 0.0        | 1.6      | 0.7      | 0.0             | 2.3       | 11.3      | 13.7        |
| Dutchess         | *          | 0.0      | 0.0      | 0.0             | 0.0       | 0.0       | *           |
| Essex            | 2.9        | 13.2     | 16.7     | 0.0             | 32.9      | 28.6      | 61.4        |
| Franklin         | 0.4        | 3.9      | 7.8      | 0.0             | 12.1      | 21.1      | 33.2        |
| Fulton           | 0.1        | 7.5      | 6.3      | 0.0             | 13.9      | 5.5       | 19.4        |
| Greene           | 0.0        | 0.5      | 0.3      | 0.0             | 0.8       | 0.1       | 0.9         |
| Hamilton         | 1.0        | 2.9      | 0.5      | 0.0             | 4.4       | 19.0      | 23.3        |
| Herkimer         | 0.2        | 2.2      | 1.0      | 0.0             | 3.3       | 2.8       | 6.1         |
| Jefferson        | *          | 1.5      | 0.2      | 0.0             | 1.8       | 0.1       | 1.9         |
| Lewis            | 0.4        | 4.6      | 0.9      | 0.0             | 5.8       | 1.4       | 7.2         |
| Madison          | 0.0        | 0.1      | 0.0      | 0.0             | 0.1       | 0.0       | 0.1         |
| Monroe           | 0.0        | 0.1      | 0.3      | 0.0             | 0.3       | 0.1       | 0.4         |
| Montgomery       |            | 0.1      | 0.0      | 0.0             | 0.1       | 0.2       | 0.2         |
| Oneida           | *          | 1.0      | 0.2      | 0.0             | 1.1       | 2.2       | 3.3         |
| Onondaga         | 0.0        | 0.1      | 0.0      | 0.0             | 0.1       | 0.0       | 0.1         |
| Oswego           | *          | 6.1      | 0.1      | 0.0             | 6.2       | 0.0       | 6.2         |
| Otsego           | 0.1        | 1.4      | 0.6      | 0.0             | 2.1       | 0.2       | 2.3         |
| Rensselaer       | 0.2        | 3.2      | 7.5      | 0.0             | 10.9      | 8.2       | 19.1        |
| Rockland         | 0.0        | *        | 0.0      | 0.0             | 0.0       | 0.0       | *           |
| Saratoga         | 0.2        | 6.3      | 15.6     | 0.0             | 22.1      | 17.9      | 40.0        |
| Schenectady      | 0.0        | 0.0      | *        | 0.0             | 0.0       | 0.0       | *           |
| Schohairie       | 0.0        | 0.9      | 0.1      | 0.0             | 1.1       | 0.0       | 1.1         |
| St.Lawrence      | 0.5        | 9.2      | 6.1      | 0.0             | 15.8      | 62.5      | 78.2        |
| Steuben          | 0.0        | 1.5      | 1.1      | 0.0             | 2.7       | 0.4       | 3.1         |
| Sullivan         | 0.0        | 0.7      | 0.0      | 0.0             | 0.7       | 0.0       | 0.7         |
| Tioga            | 0.0        | 0.0      | 0.0      | 0.0             | 0.1       | 1.3       | 1.4         |
| Tompkins         | 0.0        | 0.0      | 3.9      | 0.0             | 3.9       | 0.0       | 3.9         |
| Ulster           | 0.0        | 0.0      | 0.0      | 0.0             | 0.2       | 0.0       | 0.2         |
| Warren           | 0.0        | 8.1      | 10.9     | 0.0             | 19.5      | 10.7      | 30.2        |
| Washington       | 0.0        | 7.5      | 4.2      | 0.0             | 11.6      | 9.9       | 21.6        |
| _                | 0.0        | 0.0      | 0.0      | 0.0             | 0.0       | 0.7       | 0.7         |
| Wayne<br>Unknown | 0.0        | 0.0      | 0.0      | 0.0             | 0.0       | 0.8       | 0.7         |
|                  |            |          |          |                 |           |           |             |
| Total            | 6.7        | 90.4     | 96.8     | 9.7             | 203.5     | 225.5     | 429.4       |

<sup>\*</sup> less than 50 cords. Counties with no reported production are not listed.

Table CD10.—Pulpwood production from roundwood in Delaware, Maryland, and New Jersey, by county and type, 2001

|                |      | Softwood  |                  |           |           |
|----------------|------|-----------|------------------|-----------|-----------|
| County         | Pine | Mixed     | Total            | Total     | Total all |
|                |      | softwoods | softwood         | hardwoods | species   |
| DELAWARE       |      | T         | housand standard | cords     |           |
| Kent           | *    | 0.0       | *                | *         | *         |
| New Castle     | 0.0  | 0.0       | 0.0              | *         | *         |
| Unknown        | 0.0  | 0.0       | 0.0              | *         | *         |
| Total          | 0.0  | 0.0       | *                | *         | *         |
| MARYLAND       |      |           |                  |           |           |
| Allegheny      | 0.7  | 0.9       | 1.5              | 20.1      | 21.6      |
| Anne Arundel   | 3.0  | *         | 3.0              | 5.3       | 8.3       |
| Baltimore      | 0.4  | *         | 0.4              | 5.4       | 5.9       |
| Calvert        | 0.4  | 0.5       | 0.8              | 0.7       | 1.5       |
| Carroll        | 0.4  | 0.0       | 0.4              | 1.2       | 1.6       |
| Cecil          | 0.1  | 0.6       | 0.7              | 0.1       | 0.8       |
| Charles        | 8.7  | 0.0       | 8.7              | 2.8       | 11.5      |
| Dorchester     | 0.0  | 0.3       | 0.3              | 1.2       | 1.5       |
| Frederick      | 1.1  | 0.0       | 1.1              | 6.9       | 8.0       |
| Garrett        | 0.0  | 3.0       | 3.0              | 33.0      | 36.0      |
| Harford        | 0.1  | 0.0       | 0.1              | 1.0       | 1.1       |
| Howard         | 0.2  | 0.0       | 0.2              | 0.6       | 0.8       |
| Montgomery     | 0.1  | 0.0       | 0.1              | 0.6       | 0.6       |
| Prince Georges | 0.2  | 0.0       | 0.2              | 0.8       | 1.0       |
| Queen Annes    | *    | 0.0       | 0.0              | *         | 0.0       |
| St. Marys      | 6.2  | 9.3       | 15.6             | 4.1       | 19.7      |
| Washington     | 0.0  | 1.5       | 1.5              | 1.8       | 3.3       |
| Wicomico       | 48.3 | 0.0       | 48.3             | 4.3       | 52.6      |
| Unknown        | 0.0  | 0.0       | *                | *         | 0.0       |
| Total          | 69.9 | 16.1      | 86.0             | 89.9      | 175.9     |
| NEW JERSEY     |      |           |                  |           |           |
| Atlantic       | 1.2  | 0.0       | 1.2              | *         | 1.2       |
| Camden         | 6.6  | 0.0       | 6.6              | *         | 7.1       |
| Cape May       | 0.4  | 0.0       | 0.4              | 0.0       | 0.4       |
| Gloucester     | 0.1  | 0.0       | 0.1              | 0.0       | 0.1       |
| Mercer         | 0.1  | 0.0       | 0.1              | 0.0       | 0.1       |
| Ocean          | 6.1  | 0.0       | 6.1              | 0.0       | 6.1       |
| Warren         | 2.2  | 0.0       | 2.2              | 0.0       | 2.2       |
| Total          | 16.7 | 0.0       | 16.7             | *         | 17.2      |

<sup>\*</sup> less than 50 cords. Counties with no reported production are not listed.

Table CD11.—Pulpwood production from roundwood in Pennsylvania, by county and type, 2001

|                   |                      | Soft     | wood                |                    |                    |                   |
|-------------------|----------------------|----------|---------------------|--------------------|--------------------|-------------------|
| County            | Hemlock/<br>Tamarack | Pine     | Mixed<br>softwoods  | Total<br>softwoods | Total<br>hardwoods | Total all species |
|                   |                      |          | - <b>-</b> Thousand | standard cords -   |                    |                   |
| Adams             | 0.0                  | 3.4      | 0.5                 | 3.9                | 6.7                | 10.6              |
| Allegheny         | 0.0                  | 0.0      | 0.0                 | 0.0                | 5.5                | 5.5               |
| Bedford           | 0.0                  | 2.4      | 5.3                 | 7.7                | 16.4               | 24.1              |
| Berks             | 0.0                  | 1.0      | 0.0                 | 1.0                | 3.0                | 4.0               |
| Blair             | 0.0                  | 0.1      | 1.2                 | 1.3                | 2.4                | 3.7               |
| Bradford          | 0.4                  | 0.7      | 0.0                 | 1.1                | 2.3                | 3.4               |
| Bucks             | 0.0                  | *        | 0.0                 | 0.0                | 0.0                | 0.0               |
| Cambria           | 1.0                  | 1.1      | 1.1                 | 3.2                | 3.8                | 6.9               |
| Cameron           | 0.4                  | 0.3      | 0.0                 | 0.7                | 0.0                | 0.7               |
| Carbon            | 0.0                  | 0.1      | 0.0                 | 0.1                | 0.1                | 0.2               |
| Centre            | 0.5                  | 1.9      | 0.1                 | 2.6                | 6.1                | 8.7               |
| Chester           | 0.0                  | 0.2      | 0.0                 | 0.2                | 1.2                | 1.4               |
| Clearfield        | 3.9                  | 5.1      | 4.2                 | 13.2               | 33.3               | 46.5              |
| Clinton           | 0.4                  | 1.2      | 0.2                 | 1.8                | 1.4                | 3.2               |
| Columbia          | 0.0                  | 0.6      | 0.0                 | 0.6                | 1.1                | 1.6               |
| Crawford          | 0.0                  | 0.0      | 0.0                 | 0.0                | 26.9               | 26.9              |
| Cumberland        | 0.0                  | 0.8      | 0.0                 | 0.8                | 2.4                | 3.2               |
| Dauphin           | 0.0                  | 1.0      | 0.0                 | 1.0                | 8.0                | 9.0               |
| Delaware          | 0.0                  | 0.1      | 0.0                 | 0.1                | 0.4                | 0.6               |
| Elk               | 1.9                  | 1.8      | 0.0                 | 3.7                | 22.6               | 26.2              |
| Erie              | 0.0                  | 0.0      | 0.0                 | 0.0                | 0.1                | 0.1               |
|                   | 0.0                  | *        | 0.0                 | 0.0                | 4.2                | 4.2               |
| Fayette<br>Forest | 1.2                  | 0.8      | 0.0                 | 2.0                | 18.9               | 20.9              |
| Franklin          | 0.0                  | 1.0      | 0.0                 | 1.0                | 9.7                | 10.7              |
| Fulton            | 0.0                  | 5.4      | 3.4                 | 8.8                | 7.0                | 15.7              |
|                   | 0.0                  | ).4<br>* |                     |                    | 4.9                | 4.9               |
| Greene            |                      |          | 0.0                 | 0.0                |                    |                   |
| Huntington        | 0.0                  | 8.3      | 0.5                 | 8.8                | 14.7               | 23.6              |
| Indiana           | 0.5                  | 0.5      | 2.4                 | 3.4                | 4.4                | 7.8               |
| Jefferson         | 3.4                  | 2.9      | 1.0                 | 7.3                | 9.9                | 17.3              |
| Juniata           | 0.0                  | 6.5<br>* | 0.0                 | 6.5                | 5.6                | 12.1              |
| Lackawanna        | 0.2                  |          | 0.0                 | 0.2                | 5.6                | 5.7               |
| Lancaster         | 0.0                  | *        | 0.0                 | 0.0                | 1.3                | 1.3               |
| Lawrence          | 0.0                  | 0.0      | 0.0                 | 0.0                | 0.3                | 0.3               |
| Lebanon           | 0.0                  | 0.1      | 0.0                 | 0.1                | 1.3                | 1.4               |
| Lehigh            | 0.0                  | 0.0      | 0.0                 | 0.0                | 1.5                | 1.5               |
| Luzerine          | 0.3                  | 1.0      | 0.0                 | 1.2                | 1.2                | 2.4               |
| Lycoming          | 0.6                  | 3.8      | 0.0                 | 4.4                | 2.8                | 7.2               |
| McKean            | 0.4                  | 0.3      | 0.0                 | 0.7                | 18.9               | 19.6              |
| Mercer            | 0.0                  | 2.5      | 0.2                 | 2.7                | 7.3                | 9.9               |
| Mifflin           | 0.0                  | 0.9      | 0.0                 | 0.9                | 7.6                | 8.5               |
| Monroe            | 0.0                  | 0.0      | 0.0                 | 0.0                | 1.0                | 1.0               |
| Montgomery        | 0.0                  | *        | 0.0                 | 0.0                | 0.0                | 0.0               |
| Montour           | 0.0                  | 1.1      | 0.0                 | 1.1                | 0.0                | 1.1               |
| Northcumberland   | 0.0                  | 0.2      | 0.0                 | 0.2                | 2.5                | 2.7               |

Continued

Table CD11.—continued

|              |          | Soft | wood      |                |           |           |
|--------------|----------|------|-----------|----------------|-----------|-----------|
| County       | Hemlock/ | Pine | Mixed     | Total          | Total     | Total all |
|              | Tamarack |      | softwoods | softwoods      | hardwoods | species   |
|              |          |      | Thousand  | standard cords |           |           |
| Perry        | 0.0      | 3.9  | 0.0       | 3.9            | 1.1       | 5.0       |
| Pike         | 0.0      | 0.1  | 0.0       | 0.1            | 0.9       | 1.0       |
| Potter       | 0.0      | 0.0  | 0.0       | 0.0            | 5.6       | 5.6       |
| Schuylkill   | 0.0      | 1.9  | 0.0       | 1.9            | 34.5      | 36.3      |
| Snyder       | 0.0      | 0.4  | 0.0       | 0.4            | 1.5       | 2.0       |
| Somerset     | 0.0      | 0.4  | 0.8       | 1.2            | 28.0      | 29.2      |
| Sullivan     | 0.6      | 6.9  | 0.0       | 7.5            | 10.1      | 17.6      |
| Susquehanna  | 0.4      | 0.3  | 0.0       | 0.7            | 2.3       | 3.0       |
| Tioga        | 0.0      | 3.3  | 0.0       | 3.4            | 8.8       | 12.2      |
| Union        | 0.0      | 0.7  | 0.0       | 0.7            | 0.3       | 1.0       |
| Warren       | 0.4      | 0.3  | 0.0       | 0.7            | 6.4       | 7.1       |
| Washington   | 0.0      | *    | 1.0       | 1.0            | 3.0       | 4.0       |
| Wayne        | 0.8      | *    | 0.0       | 0.8            | 4.7       | 5.5       |
| Westmoreland | 0.0      | 0.0  | 0.0       | 0.0            | 3.1       | 3.1       |
| Wyoming      | 0.3      | 2.3  | 0.0       | 2.6            | 6.2       | 8.8       |
| York         | 0.0      | 2.2  | 0.0       | 2.2            | 6.7       | 8.9       |
| Unknown      | 3.9      | 18.0 | 4.9       | 26.8           | 89.1      | 115.9     |
| Total        | 21.5     | 97.8 | 27.8      | 147.1          | 485.7     | 632.8     |

<sup>\*</sup> less than 50 cords. Counties with no reported production are not listed.

Table CD12.—Pulpwood production from roundwood in West Virginia, by county and type, 2001

|            |          | Softwood           |                    |                    |           |
|------------|----------|--------------------|--------------------|--------------------|-----------|
| County     | Pine     | Mixed<br>softwoods | Total<br>softwoods | Total<br>hardwoods | Total all |
|            |          |                    | ousand standar     |                    |           |
| Barbour    | *        | *                  | *                  | 12.2               | 12.2      |
| Berkeley   | 0.0      | 2.7                | 2.7                | 5.3                | 8.0       |
| Boone      | 0.8      | 0.0                | 0.8                | 6.5                | 7.3       |
| Braxton    | 0.3      | 0.0                | 0.3                | 5.3                | 5.6       |
| Cabell     | 0.9      | 0.1                | 1.0                | 0.9                | 1.9       |
| Calhoun    | 0.9      | 0.0                | 0.8                | 3.2                | 3.9       |
|            | 0.0      | 0.0                | 0.0                | 3.8                | 3.8       |
| Clay       |          | 0.0                | 0.8                | 6.9                |           |
| Doddridge  | 0.8      |                    |                    |                    | 7.7       |
| Fayette    | 0.0      | 0.0                | 0.0                | 1.5                | 1.5       |
| Gilmer     | 0.0      | 0.0                | 0.0                | 2.3                | 2.3       |
| Grant      | 0.2      | 0.3                | 0.5                | 13.7               | 14.2      |
| Greenbrier | 0.0      | 0.0                | 0.0                | 2.3                | 2.3       |
| Hampshire  | 0.0      | 9.1                | 9.1                | 14.6               | 23.7      |
| Hancock    | 0.0      | 0.0                | 0.0                | 2.6                | 2.6       |
| Hardy      | 0.0      | 6.5                | 6.5                | 12.9               | 19.4      |
| Harrison   | *        | 0.0                | *                  | 9.9                | 9.9       |
| Jackson    | 2.5      | 2.6                | 5.1                | 2.3                | 7.4       |
| Kanawha    | 1.1      | *                  | 1.1                | 3.9                | 5.0       |
| Lewis      | 0.4      | 0.0                | 0.4                | 11.3               | 11.7      |
| Lincoln    | 0.9      | 0.0                | 0.9                | 3.1                | 4.0       |
| Logan      | 0.0      | 0.0                | 0.0                | 4.4                | 4.4       |
| Marion     | *        | *                  | *                  | 12.3               | 12.3      |
| Marshall   | 0.0      | 0.0                | 0.0                | 0.6                | 0.6       |
| Mason      | 2.9      | 1.5                | 4.4                | 3.8                | 8.3       |
| McDowell   | 0.0      | 0.0                | 0.0                | 2.2                | 2.2       |
| Mineral    | 0.0      | 3.4                | 3.4                | 14.0               | 17.4      |
| Mingo      | 0.0      | 0.0                | 0.0                | *                  | *         |
| Monongalia | 0.1      | 0.0                | 0.1                | 12.2               | 12.3      |
| Morgan     | 0.0      | 5.1                | 5.1                | 6.8                | 11.9      |
| Nicholas   | 0.8      | 0.0                | 0.8                | 10.9               | 11.7      |
| Ohio       | 0.0      | 0.0                | 0.0                | 3.4                | 3.4       |
| Pendleton  | 0.0      | 0.1                | 0.1                | 2.6                | 2.7       |
| Pleasant   | *        | 1.1                | 1.1                | 0.7                | 1.8       |
| Pocahontas | 0.3      | 0.0                | 0.3                | 11.5               | 11.8      |
| Preston    | 0.6      | 0.4                | 1.0                | 30.1               | 31.0      |
| Putnam     | 3.9      | 1.2                | 5.1                | 4.8                | 9.9       |
| Raleigh    | 0.0      | 0.0                | 0.0                | 3.4                | 3.4       |
| Randolph   | 0.2      | 1.5                | 1.7                | 62.2               | 63.8      |
| Roane      | 0.2      | *                  | 0.2                | 1.5                | 1.7       |
|            | 0.4      |                    | 0.4                | 4.3                | 4.7       |
| Taylor     |          | 0.0                |                    |                    |           |
| Tucker     | 0.0      | 0.1                | 0.1                | 18.2               | 18.3      |
| Tyler      | 0.4<br>* | 0.0                | 0.4<br>*           | 2.1                | 2.5       |
| Upshur     |          | 0.0                |                    | 15.8               | 15.8      |
| Wayne      | 0.0      | 0.0                | 0.0                |                    |           |
| Webster    | 0.4      | 0.0                | 0.4                | 15.1               | 15.5      |
| Wetzel     | 0.0      | 0.0                | 0.0                | 5.0                | 5.0       |
| Wirt       | 1.1      | 5.2                | 6.3                | 3.8                | 10.1      |
| Wood       | 3.0      | 4.9                | 7.8                | 3.0                | 10.8      |
| Wyoming    | 0.0      | 0.0                | 0.0                | 0.4                | 0.4       |
| Unknown    | 15.8     | 0.0                | 15.8               | 253.2              | 269.0     |
| Total      | 41.8     | 49.6               | 91.4               | 640.5              | 731.9     |

<sup>\*</sup> less than 50 cords. Counties with no reported production are not listed.

Table CD13.—Pulpwood production from roundwood in Ohio, by county and type, 2001

|            |      | Softwood  |                 |           |          |
|------------|------|-----------|-----------------|-----------|----------|
| County     | Pine | Mixed     | Total           | Total     | Total al |
|            |      | softwoods | softwoods       | hardwoods | species  |
|            |      | Thous     | sand standard o | cords     |          |
| Adams      | 0.2  | 0.0       | 0.2             | 1.9       | 2.1      |
| Ashland    | 0.0  | 0.0       | 0.0             | 1.0       | 1.0      |
| Ashtabula  | 0.0  | 0.0       | 0.0             | 0.1       | 0.1      |
| Athens     | 0.3  | 0.0       | 0.3             | 1.7       | 2.0      |
| Belmont    | 2.7  | 0.0       | 2.7             | 8.1       | 10.9     |
| Carroll    | 0.4  | 0.0       | 0.4             | 1.3       | 1.7      |
| Clermont   | 0.2  | 0.0       | 0.2             | 0.9       | 1.1      |
| Clinton    | 0.2  | 0.0       | 0.2             | 0.8       | 1.0      |
| Columbiana | 0.0  | 0.0       | 0.0             | 0.2       | 0.2      |
| Coshocton  | 3.4  | 0.0       | 3.4             | 8.1       | 11.4     |
| Cuyahoga   | 0.0  | 0.0       | 0.0             | 9.1       | 9.1      |
| Delaware   | 0.0  | 0.0       | 0.0             | 0.5       | 0.5      |
| Erie       | 0.0  | 0.0       | 0.0             | 0.1       | 0.1      |
| Fairfield  | 0.2  | 0.0       | 0.2             | 1.8       | 2.0      |
| Franklin   | 0.0  | 0.0       | 0.0             | 2.7       | 2.7      |
| Fulton     | 5.3  | 0.0       | 5.3             | 0.8       | 6.1      |
| Gallia     | 2.4  | 1.3       | 3.7             | 8.6       | 12.3     |
| Geauga     | 0.0  | 0.0       | 0.0             | 1.8       | 1.8      |
| Guernsey   | 0.0  | 0.0       | 0.0             | 3.4       | 3.4      |
| Hamilton   | 0.2  | 0.0       | 0.2             | 1.9       | 2.1      |
| Hardin     | 0.0  | 0.0       | 0.0             | *         | *        |
| Harrison   | 0.4  | 0.0       | 0.4             | 4.9       | 5.3      |
| Highland   | 0.3  | 0.0       | 0.3             | 2.9       | 3.2      |
| Hocking    | 1.0  | 0.0       | 1.0             | 5.2       | 6.3      |
| Holmes     | 0.0  | 0.0       | 0.0             | 0.3       | 0.3      |
| Huron      | 0.0  | 0.0       | 0.0             | 1.9       | 1.9      |
| Jackson    | 4.3  | 0.0       | 4.3             | 28.8      | 33.1     |
| Jefferson  | 0.0  | 0.0       | 0.0             | 0.9       | 0.9      |
| Knox       | 0.0  | 0.0       | 0.0             | *         | *        |
| Lake       |      | 0.0       | 0.0             | 3.0       | 3.0      |
|            | 0.0  |           | 1.6             | 14.4      | 16.0     |
| Lawrence   | 1.6  | 0.0       |                 | 1.9       | 6.2      |
| Licking    | 4.3  | 0.0       | 4.3             | 3.3       | 3.3      |
| Lorain     | 0.0  | 0.0       | 0.0             |           |          |
| Lucas      | 0.0  | 0.0       | 0.0             | 0.5       | 0.5      |
| Madison    | 0.2  | 0.0       | 0.2             | 0.8       | 1.0      |
| Mahoning   | 0.0  | 0.0       | 0.0             | 0.8       | 0.8      |
| Medina     | 0.0  | 0.0       | 0.0             | 4.1       | 4.1      |
| Meigs      | 0.4  | 3.7       | 4.1             | 5.2       | 9.3      |
| Monroe     | 0.0  | 0.0       | 0.0             |           |          |
| Montgomery | 0.2  | 0.0       | 0.2             | 1.9       | 2.1      |
| Morgan     | 0.5  | 0.0       | 0.5             | 1.6       | 2.1      |
| Morrow     | 0.0  | 0.0       | 0.0             | 0.1       | 0.1      |
| Muskingum  | 1.9  | 0.0       | 1.9             | 0.3       | 2.2      |
| Noble      | 0.0  | 0.0       | 0.0             | 6.7       | 6.7      |

Continued

Table CD13.—Continued

|            |      | Softwood  |                 |           |           |
|------------|------|-----------|-----------------|-----------|-----------|
| County     | Pine | Mixed     | Total           | Total     | Total all |
|            |      | softwoods | softwoods       | hardwoods | species   |
|            |      | Thous     | sand standard o | cords     |           |
| Perry      | 0.3  | 0.0       | 0.3             | 3.8       | 4.2       |
| Pickaway   | 0.3  | 0.0       | 0.3             | 5.6       | 5.9       |
| Pike       | 2.4  | 0.0       | 2.4             | 17.7      | 20.1      |
| Portage    | 0.0  | 0.0       | 0.0             | 1.9       | 1.9       |
| Richland   | 0.0  | 0.0       | 0.0             | 0.6       | 0.6       |
| Ross       | 0.4  | 0.0       | 0.4             | 18.0      | 18.3      |
| Sandusky   | 0.0  | 0.0       | 0.0             | *         | *         |
| Scioto     | 2.7  | 0.1       | 2.8             | 19.8      | 22.6      |
| Stark      | 0.0  | 0.0       | 0.0             | 4.9       | 4.9       |
| Summit     | 0.4  | 0.0       | 0.4             | 5.6       | 6.1       |
| Trumbull   | 0.0  | 0.0       | 0.0             | 10.8      | 10.8      |
| Tuscarawas | 0.4  | 0.0       | 0.4             | 8.7       | 9.1       |
| Vinton     | 2.8  | *         | 2.8             | 18.3      | 21.0      |
| Warren     | 0.6  | 0.0       | 0.6             | 1.7       | 2.2       |
| Washington | 3.8  | 0.1       | 3.9             | 4.3       | 8.2       |
| Wayne      | 0.0  | 0.0       | 0.0             | 1.5       | 1.5       |
| Unknown    | 0.0  | 0.1       | 0.1             | 12.3      | 12.4      |
| Total      | 44.7 | 5.3       | 50.0            | 279.8     | 329.8     |

<sup>\*</sup> less than 50 cords. Counties with no reported production are not listed.

Table CD14.—Production and receipts of roundwood in the Northeast, by state and type, 2001

|               | Produc   | ed in State | Received       | l in State |
|---------------|----------|-------------|----------------|------------|
| State         | Softwood | Hardwood    | Softwood       | Hardwood   |
|               |          | Thousand s  | standard cords |            |
| Connecticut   | 3.3      | 0.7         | 0.0            | 0.0        |
| Delaware      | *        | *           | 0.0            | 0.0        |
| Maine         | 1,208.8  | 2,101.3     | 1,479.9        | 2,708.3    |
| Maryland      | 86.0     | 90.3        | 102.7          | 231.2      |
| Massachusetts | 17.0     | 1.7         | 0.0            | 0.0        |
| New Hampshire | 133.1    | 152.7       | 26.2           | 156.9      |
| New Jersey    | 16.7     | 0.5         | 0.0            | 0.0        |
| New York      | 203.7    | 225.7       | 267.0          | 218.1      |
| Ohio          | 50.0     | 279.8       | 73.8           | 301.6      |
| Pennsylvania  | 146.0    | 486.7       | 287.0          | 470.0      |
| Rhode Island  | 0.6      | 0.0         | 0.0            | 0.0        |
| Vermont       | 98.9     | 85.7        | 0.0            | 0.0        |
| West Virginia | 91.7     | 640.4       | 34.1           | 551.8      |
| Totals        | 2,055.9  | 4,065.4     | 2,270.7        | 4,637.9    |

<sup>\*</sup> less than 50 cords

Table CD15.—Balance of pulpwood roundwood and residue shipments into and out of states, 2001

| State         | Production | Receipts                  | Net <sup>a</sup> |
|---------------|------------|---------------------------|------------------|
|               |            | Thousand standard cords . |                  |
| Connecticut   | 4.0        | 0.0                       | 4.0              |
| Delaware      | *          | 0.0                       | *                |
| Maine         | 3,756.5    | 5,011.7                   | -1,255.2         |
| Maryland      | 251.5      | 451.7                     | -200.2           |
| Massachusetts | 20.0       | 0.0                       | 20.0             |
| New Hampshire | 443.2      | 240.5                     | 202.7            |
| New Jersey    | 19.8       | 0.0                       | 19.8             |
| New York      | 528.5      | 568.2                     | -39.8            |
| Ohio          | 627.3      | 791.0                     | -163.7           |
| Pennsylvania  | 896.8      | 1,108.5                   | -211.7           |
| Rhode Island  | 0.6        | 0.0                       | 0.6              |
| Vermont       | 192.5      | 0.0                       | 192.5            |
| West Virginia | 884.6      | 589.0                     | 295.6            |
| Total         | 7,625.3    | 8,760.6                   | -1,135.3         |

<sup>\*</sup>less than 50 cords

<sup>&</sup>lt;sup>a</sup>negative values indicate a net importing state, positive values a net exporting state

Table CD16.—Imports of roundwood into the Northeast, by state (or province) of origin, state of consumption, and type, 2001

|               |                          |              | Sol      | Softwood |          |             |                | Hard    | Hardwood  |          |         |
|---------------|--------------------------|--------------|----------|----------|----------|-------------|----------------|---------|-----------|----------|---------|
| Receiving     | State/province Hemlock & | Hemlock &    | Mixed    | Pine     | Spruce & | Softwood    | Aspen &        | Oak &   | Other     | Hardwood | Total   |
| state         | of origin                | Tamarack sof | spoomyos |          | Fir      | totals      | Yellow-Poplar  | Hickory | hardwoods | totals   | imports |
|               |                          |              |          |          | ,        | Thousand st | standard cords |         |           |          |         |
| Maine         | Canada                   | 13.9         | 0.2      | 0.2      | 94.8     | 109.1       | 275.5          | 0.0     | 215.3     | 490.8    | 599.9   |
| New York      | Canada                   | 15.7         | 0.0      | 3.1      | 0.2      | 19.0        | 0.0            | 0.0     | 0.4       | 0.4      | 19.4    |
| Ohio          | Kentucky                 | 0.0          | 0.0      | 15.5     | 0.0      | 15.5        | 0.0            | 0.0     | 24.4      | 24.4     | 39.8    |
| Pennsylvania  | Canada                   | 0.0          | 0.0      | 0.0      | 0.0      | 0.0         | 0.0            | 0.0     | 4.5       | 0.0      | 4.5     |
|               | Virginia                 | 0.0          | 0.0      | 54.5     | 0.0      | 54.6        | 0.0            | 5.0     | 0.1       | 5.2      | 59.8    |
| West Virginia | Kentucky                 | 0.0          | 0.0      | 0.5      | 0.0      | 0.5         | 0.0            | 0.0     | 6.9       | 6.9      | 7.5     |
|               | Virginia                 | 0.0          | 0.0      | 1.6      | 0.0      | 1.6         | 0.0            | 0.0     | 12.5      | 12.5     | 14.2    |
| Total         |                          | 29.6         | 0.2      | 75.5     | 95.0     | 200.3       | 275.5          | 5.0     | 264.1     | 544.6    | 745.0   |

Table CD17.—Sources of imports of manufacturing residues, by state and type, 2001

|              |           |       |          |       | T     | Type                      |             |       |       |       |
|--------------|-----------|-------|----------|-------|-------|---------------------------|-------------|-------|-------|-------|
| То           | From      | - 1   | Softwood | poc   | 1     |                           | Hardwood    | poow  |       | Total |
|              |           | Chips | Sawdust  | Other | Total | Chips                     | Sawdust     | Other | Total |       |
|              |           |       | 1 1 1 1  |       | Thou  | - Thousand standard cords | ard cords - |       |       |       |
| Maine        | New       | 0.0   | 0.0      | 0.0   | 0.0   | 35.2                      | 0.0         | 0.1   | 35.3  | 35.3  |
|              | Brunswick |       |          |       |       |                           |             |       |       |       |
|              | Quebec    | 21.8  | 0.0      | 0.0   | 21.8  | 10.2                      | 0.0         | 0.0   | 10.2  | 32.0  |
|              | Canada    | 0.0   | 32.0     | 0.0   | 30.2  | 1.6                       | 0.0         | 0.0   | 1.6   | 31.8  |
| New York     | Canada    | 0.2   | 0.0      | 0.0   | 0.2   | 0.0                       | 0.0         | 0.0   | 0.0   | 0.2   |
| Ohio         | Indiana   | 0.0   | 0.0      | 0.0   | 0.0   | 4.9                       | 0.0         | 0.0   | 4.9   | 4.9   |
|              | Kentucky  | 2.5   | 21.3     | 0.0   | 23.8  | 27.0                      | 22.9        | 0.0   | 28.6  | 52.4  |
|              | Tennessee | 0.7   | 0.0      | 0.0   | 0.7   | 0.0                       | 0.0         | 0.0   |       | 0.7   |
| Pennsylvania | Canada    | 0.0   | 0.0      | 0.0   | 0.0   | 0.2                       | 0.0         | 0.0   | 0.2   | 0.2   |
|              | Virginia  | 1.1   | 0.0      | 0.0   | 1.1   | 8.5                       | 0.0         | 0.0   | 8.5   | 9.6   |
| Total        |           | 26.3  | 30.2     | 0.0   | 77.8  | 87.6                      | 22.9        | 0.1   | 89.3  | 167.1 |

Table CD18.—Exports from the Northeastern region by state to other states and Canada, 2001

|               |          |          |          | То            |               |          |          |          |
|---------------|----------|----------|----------|---------------|---------------|----------|----------|----------|
|               | Alab     | oama     | Ken      | tucky         | Lou           | isiana   | North (  | Carolina |
| From          | Softwood | Hardwood | Softwood | Hardwood      | Softwood      | Hardwood | Softwood | Hardwood |
|               |          |          |          | Thousand star | ndard cords - |          |          |          |
| Massachusetts | 0.0      | 0.0      | 0.0      | 0.0           | 0.0           | 0.0      | 0.0      | 0.0      |
| Maryland      | 0.0      | 0.0      | 0.0      | 0.0           | 0.0           | 0.0      | 0.0      | 0.0      |
| Maine         | 0.0      | 0.0      | 0.0      | 0.0           | 0.0           | 0.0      | 0.0      | 0.0      |
| New Hampshire | 0.0      | 10.4     | 0.0      | 0.0           | 0.0           | 0.0      | 0.0      | 0.0      |
| New Jersey    | 0.0      | 0.0      | 0.0      | 0.0           | 0.0           | 13.2     | 0.0      | 0.0      |
| New York      | 0.0      | 0.0      | 0.0      | 0.0           | 0.0           | 0.0      | 0.0      | 0.0      |
| Ohio          | 0.0      | 0.0      | 0.0      | 5.8           | 0.0           | 0.0      | 0.0      | 0.0      |
| Pennsylvania  | 0.0      | 0.0      | 0.0      | 0.0           | 0.0           | 0.0      | 0.0      | 0.0      |
| Rhode Island  | 0.0      | 0.0      | 0.0      | 0.0           | 0.0           | 0.0      | 0.0      | 0.0      |
| Vermont       | 0.0      | 0.0      | 0.0      | 0.0           | 0.0           | 0.0      | 0.0      | 0.0      |
| West Virginia | 0.0      | 0.0      | 0.0      | 0.8           | 0.0           | 0.0      | 0.0      | 152.3    |
| Total         | 0.0      | 10.4     | 0.0      | 6.6           | 0.0           | 13.2     | 0.0      | 152.3    |

Table CD18 (continued). —Exports from the Northeastern region by state to other states and Canada, 2001

|               |          |          |          | T            | o              |          |          | -        |
|---------------|----------|----------|----------|--------------|----------------|----------|----------|----------|
| From          | South (  | Carolina | Vii      | rginia       | Can            | ada      | То       | tal      |
|               | Softwood | Hardwood | Softwood | Hardwood     | Softwood       | Hardwood | Softwood | Hardwood |
|               |          |          |          | Thousand sta | andard cords - |          |          |          |
| Massachusetts | 0.0      | 0.0      | 0.0      | 0.0          | 1.4            | 0.0      | 1.4      | 0.0      |
| Maryland      | 0.0      | 0.0      | 19.3     | 35.4         | 0.0            | 0.0      | 19.3     | 35.4     |
| Maine         | 0.0      | 0.0      | 0.0      | 0.0          | 555.6          | 56.8     | 555.6    | 56.8     |
| New Hampshire | 0.0      | 33.6     | 0.0      | 0.0          | 8.4            | 0.4      | 8.4      | 44.4     |
| New Jersey    | 0.0      | 0.0      | 0.0      | 0.0          | 0.0            | 0.0      | 0.0      | 13.2     |
| New York      | 0.0      | 0.0      | 0.0      | 0.0          | 28.5           | 35.7     | 28.5     | 35.7     |
| Ohio          | 0.0      | 0.0      | 0.0      | 25.2         | 0.0            | 0.0      | 0.0      | 31.0     |
| Pennsylvania  | 0.0      | 0.0      | 0.0      | 0.0          | 0.9            | 0.6      | 0.9      | 0.6      |
| Rhode Island  | 0.0      | 0.0      | 0.0      | 0.0          | *              | 0.0      | 0.0      | 0.0      |
| Vermont       | 0.0      | 0.0      | 0.0      | 0.0          | 77.9           | 100.9    | 77.9     | 100.9    |
| West Virginia | 0.0      | 0.0      | 4.0      | 156.2        | *              | 0.6      | 4.0      | 309.9    |
| Total         | 0.0      | 33.6     | 23.3     | 216.8        | 672.7          | 195.0    | 696.0    | 627.9    |

<sup>\*</sup> less than 50 cords. States with no exports are not listed.

Table CD19.—Estimated average annual pulpwood roundwood removals per acre of timberland in the Northeast, 2001

| State         | Acres of timberland (Thousand acres) | Pulpwood harvest (Thousand cords) | Removals/acre <sup>a</sup><br>(Cubic feet) |
|---------------|--------------------------------------|-----------------------------------|--------------------------------------------|
| Connecticut   | 1,815                                | 4.0                               | 0.2                                        |
| Delaware      | 376                                  | *                                 | **                                         |
| Maine         | 16,952                               | 3,310.2                           | 16.6                                       |
| Maryland      | 2,423                                | 176.4                             | 6.2                                        |
| Massachusetts | 2,965                                | 18.7                              | 0.5                                        |
| New Hampshire | 4,551                                | 285.8                             | 5.3                                        |
| New Jersey    | 1,864                                | 17.2                              | 0.8                                        |
| New York      | 15,406                               | 429.4                             | 2.4                                        |
| Ohio          | 7,568                                | 329.8                             | 3.7                                        |
| Pennsylvania  | 15,853                               | 632.7                             | 3.4                                        |
| Rhode Island  | 356                                  | 0.6                               | 0.1                                        |
| Vermont       | 4,461                                | 184.5                             | 3.5                                        |
| West Virginia | 11,900                               | 732.1                             | 5.2                                        |
| Total         | 86,491                               | 6,121.4                           | 6.0                                        |

<sup>&</sup>lt;sup>a</sup>Conversion from cords to cubic feet assumes 85 cubic feet per cord

<sup>\*</sup>less than 50 cords

<sup>\*\*</sup>less than 0.05 cubic feet/acre

Table GT1.—Total production of pulpwood in the Northeast, by state and source, 2001

|               | Sc        |                       |          |  |
|---------------|-----------|-----------------------|----------|--|
| State         | Roundwood | Manufacturing residue | Total    |  |
|               |           | Thousand green tons   |          |  |
| Connecticut   | 8.5       | 0.0                   | 8.5      |  |
| Delaware      | *         | 0.0                   | *        |  |
| Maine         | 7,478.1   | 1,115.8               | 8,593.9  |  |
| Maryland      | 402.2     | 187.9                 | 590.1    |  |
| Massachusetts | 37.4      | 3.3                   | 40.7     |  |
| New Hampshire | 639.6     | 393.4                 | 1,033.0  |  |
| New Jersey    | 33.1      | 6.4                   | 39.5     |  |
| New York      | 978.6     | 247.5                 | 1,226.1  |  |
| Ohio          | 822.7     | 743.7                 | 1,566.4  |  |
| Pennsylvania  | 1,552.5   | 660.2                 | 2,212.7  |  |
| Rhode Island  | 1.1       | 0.0                   | 1.1      |  |
| Vermont       | 402.6     | 20.1                  | 422.6    |  |
| West Virginia | 1,750.9   | 381.3                 | 2,132.2  |  |
| Total         | 14,107.2  | 3,759.6               | 17,866.8 |  |

<sup>\*</sup> less than 125 green tons

Table GT2.—Pulpwood production from roundwood in the Northeast, by type and state, 2001

|               | Ty       | <i>r</i> pe |          |  |  |  |
|---------------|----------|-------------|----------|--|--|--|
| State         | Softwood | Hardwood    | Total    |  |  |  |
|               |          |             |          |  |  |  |
| Connecticut   | 6.6      | 1.9         | 8.5      |  |  |  |
| Delaware      | *        | *           | *        |  |  |  |
| Maine         | 2,267.9  | 5,210.2     | 7,478.1  |  |  |  |
| Maryland      | 163.5    | 238.7       | 402.2    |  |  |  |
| Massachusetts | 33.1     | 4.3         | 37.4     |  |  |  |
| New Hampshire | 249.5    | 390.1       | 639.6    |  |  |  |
| New Jersey    | 31.7     | 1.4         | 33.1     |  |  |  |
| New York      | 395.5    | 583.1       | 978.6    |  |  |  |
| Ohio          | 95.0     | 727.7       | 822.7    |  |  |  |
| Pennsylvania  | 279.5    | 1,273.0     | 1,552.5  |  |  |  |
| Rhode Island  | 1.1      | *           | 1.1      |  |  |  |
| Vermont       | 187.3    | 215.2       | 402.5    |  |  |  |
| West Virginia | 1,74.1   | 1,576.8     | 1,750.9  |  |  |  |
| Total         | 3,884.8  | 10,222.4    | 14,107.2 |  |  |  |

<sup>\*</sup> less than 125 green tons

Table GT3.—Softwood and hardwood pulpwood chip production from manufacturing residues in the Northeast, by state and type, 2001

|               | Ty       | Туре                |         |  |  |  |  |
|---------------|----------|---------------------|---------|--|--|--|--|
| State         | Softwood | Hardwood            | Total   |  |  |  |  |
|               |          | Thousand green tons |         |  |  |  |  |
| Maine         | 841.0    | 274.7               | 1,115.7 |  |  |  |  |
| Maryland      | 102.4    | 85.5                | 187.9   |  |  |  |  |
| Massachusetts | 0.6      | 2.7                 | 3.3     |  |  |  |  |
| New Hampshire | 220.5    | 172.9               | 393.4   |  |  |  |  |
| New Jersey    | 0.0      | 6.4                 | 6.4     |  |  |  |  |
| New York      | 3.1      | 244.3               | 247.4   |  |  |  |  |
| Ohio          | 3.7      | 740.1               | 743.8   |  |  |  |  |
| Pennsylvania  | 20.5     | 639.7               | 660.2   |  |  |  |  |
| Vermont       | 15.6     | 4.5                 | 20.1    |  |  |  |  |
| West Virginia | 6.0      | 375.3               | 381.3   |  |  |  |  |
| Total         | 1,213.4  | 2,546.1             | 3,759.5 |  |  |  |  |

Table GT4.—Pulpwood receipts from roundwood in the Northeast, by state and type, 2001

|                                     | Ty                  |          |          |  |  |  |
|-------------------------------------|---------------------|----------|----------|--|--|--|
| State                               | Softwood            | Hardwood | Total    |  |  |  |
|                                     | Thousand green tons |          |          |  |  |  |
| Maine/New Hampshire <sup>a</sup>    | 2,635.4             | 5,293.4  | 7,928.8  |  |  |  |
| Maryland/West Virginia <sup>a</sup> | 260.0               | 1,947.5  | 2,207.5  |  |  |  |
| New York                            | 519.7               | 564.3    | 1,084.0  |  |  |  |
| Ohio                                | 140.3               | 784.1    | 924.4    |  |  |  |
| Pennsylvania                        | 520.0               | 1,271.2  | 1,791.2  |  |  |  |
| Total                               | 4,075.4             | 9,860.5  | 13,935.9 |  |  |  |

<sup>&</sup>lt;sup>a</sup>States have been combined to avoid individual disclosure.

Table GT5.—Pulpwood chip receipts from manufacturing residues in the Northeast, by state and type, 2001

|                                     | Ту       | pe                    |         |  |  |  |
|-------------------------------------|----------|-----------------------|---------|--|--|--|
| State                               | Softwood | Hardwood              | Total   |  |  |  |
|                                     |          | Thousand green tons - |         |  |  |  |
| Maine/New Hampshire <sup>a</sup>    | 1,207.6  | 567.8                 | 1,775.4 |  |  |  |
| Maryland/West Virginia <sup>a</sup> | 24.8     | 277.5                 | 302.3   |  |  |  |
| New York                            | 3.6      | 204.1                 | 207.7   |  |  |  |
| Ohio                                | 12.0     | 982.3                 | 994.3   |  |  |  |
| Pennsylvania                        | 106.9    | 771.8                 | 878.7   |  |  |  |
| Total                               | 1,354.9  | 2,803.5               | 4,158.4 |  |  |  |

<sup>&</sup>lt;sup>a</sup>States have been combined to avoid individual disclosure.

Table GT6.—Pulpwood production from roundwood in the Northeast, by state and type, 2001

|               |            | Softwood             |                    |              |                    |                    |          |
|---------------|------------|----------------------|--------------------|--------------|--------------------|--------------------|----------|
| State         | Spruce/Fir | Hemlock/<br>Tamarack | Mixed<br>softwoods | Pine         | Total<br>softwoods | Total<br>hardwoods | Total    |
|               |            |                      | Thousa             | nds green to | ns <b></b>         |                    |          |
| Connecticut   | *          | 6.5                  | 0.0                | 0.1          | 6.6                | 1.9                | 8.4      |
| Delaware      | 0.0        | 0.0                  | 0.0                | *            | *                  | *                  | *        |
| Maine         | 1,081.6    | 624.6                | 43.3               | 518.4        | 2,267.9            | 5,209.9            | 7,477.8  |
| Maryland      | 0.0        | 0.0                  | 30.8               | 132.8        | 163.6              | 238.8              | 402.4    |
| Massachusetts | 0.3        | 16.6                 | 0.1                | 16.1         | 33.1               | 4.3                | 37.4     |
| New Hampshire | 100.2      | 43.8                 | 5.4                | 100.2        | 249.6              | 390.1              | 639.7    |
| New Jersey    | 0.0        | 0.0                  | 0.0                | 31.7         | 31.7               | 1.3                | 33.0     |
| New York      | 12.1       | 181.0                | 18.4               | 184.1        | 395.6              | 583.5              | 979.1    |
| Ohio          | 0.0        | 0.0                  | 10.1               | 84.9         | 95.0               | 727.7              | 822.7    |
| Pennsylvania  | 0.0        | 42.6                 | 51.1               | 185.9        | 279.6              | 1,273.0            | 1,552.6  |
| Rhode Island  | 0.1        | 0.0                  | 0.0                | 1.0          | 1.1                | *                  | 1.1      |
| Vermont       | 50.8       | 44.4                 | 5.3                | 86.8         | 187.3              | 215.1              | 402.4    |
| West Virginia | 0.0        | 0.0                  | 94.4               | 79.8         | 174.2              | 1,576.7            | 1,750.9  |
| Total         | 1,245.1    | 959.5                | 258.9              | 1,421.8      | 3,885.2            | 10,222.3           | 14,107.5 |

<sup>\*</sup> less than 125 green tons

Table GT7.—Pulpwood production from roundwood in Northern New England, by county, state, and type, 2001

|              | NAME OF TAXABLE PARTY. |          | Softwood |                   |           |           |             |
|--------------|------------------------|----------|----------|-------------------|-----------|-----------|-------------|
| County       | Spruce/fir             | Hemlock/ | Pine     | Mixed             | Total     | Total     | Total       |
|              |                        | Tamarack |          | softwoods         | softwoods | hardwoods | all species |
| MAINE        |                        |          | T        | housands green to | ns        |           |             |
| Androscoggin | 2.6                    | 10.2     | 31.2     | 1.5               | 45.4      | 99.3      | 144.8       |
| Aroostock    | 52.5                   | 25.2     | 1.0      | 1.5               | 80.3      | 879.6     | 959.8       |
| Cumberland   | 2.0                    | 27.6     | 49.0     | 3.8               | 82.4      | 39.9      | 122.3       |
| Franklin     | 73.6                   | 35.6     | 18.4     | 3.0               | 130.6     | 422.4     | 553.0       |
| Hancock      | 23.9                   | 10.0     | 11.0     | 2.7               | 47.6      | 213.4     | 261.0       |
| Kennebec     | 7.3                    | 27.2     | 44.1     | 4.4               | 82.9      | 99.0      | 182.0       |
| Knox         | 4.0                    | 2.6      | 5.1      | 0.4               | 12.1      | 21.2      | 33.1        |
| Lincoln      | 5.2                    | 4.2      | 20.1     | 1.3               | 30.8      | 19.5      | 50.3        |
| Oxford       | 82.5                   | 93.8     | 191.5    | 5.1               | 372.8     | 504.8     | 877.7       |
| Penobscot    | 115.3                  | 55.8     | 23.9     | 6.7               | 201.8     | 830.6     | 1,032.3     |
| Piscataquis  | 93.9                   | 18.2     | 4.8      | 1.9               | 118.7     | 641.9     | 760.7       |
| Sagadahoc    | 0.5                    | 2.0      | 7.0      | 0.4               | 9.9       | 7.6       | 17.5        |
| Somerset     | 151.0                  | 56.4     | 23.4     | 2.5               | 233.3     | 759.6     | 992.9       |
| Waldo        | 13.4                   | 9.2      | 31.2     | 1.0               | 54.9      | 69.5      | 124.3       |
| Washington   | 75.4                   | 12.6     | 8.4      | 4.6               | 101.0     | 413.4     | 514.4       |
| York         | 0.1                    | 12.6     | 42.6     | 2.3               | 57.7      | 28.9      | 86.5        |
| Unknown      | 378.5                  | 221.6    | 5.7      | *                 | 605.8     | 159.6     | 765.5       |
| Total        | 1,081.6                | 624.8    | 518.4    | 43.1              | 2,267.9   | 5,210.2   | 7,478.1     |
| -            |                        | 024.0    | 710.4    | 43.1              | 2,207.7   | 7,210.2   | /,4/0.1     |
| NEW HAMPSH   | IRE<br>*               | *        |          | *                 |           | 0.2       | 0./         |
| Belknap      | *                      |          | 1.1      |                   | 1.1       | 8.3       | 9.4         |
| Carroll      | *                      | 5.6      | 4.6      | 0.8               | 11.0      | *         | 11.0        |
| Cheshire     |                        | 1.4      | 1.5      |                   | 2.9       |           | 2.9         |
| Coos         | 25.7                   |          | 1.3      | 1.5               | 28.5      | 142.6     | 171.1       |
| Grafton      | 1.6                    | 1.2      | 3.0      | 0.6<br>*          | 6.4       | 5.7<br>*  | 12.1        |
| Hillsborough | *                      |          | 2.1      |                   | 2.1       |           | 2.1         |
| Merrimack    | *                      | 15.0     | 10.3     | 1.1               | 26.4      | 3.1       | 29.5        |
| Rockingham   | *                      | 1.2      | 8.9      | 1.1               | 11.2      | 3.4       | 14.6        |
| Stafford     |                        |          | 6.1      |                   | 6.1       |           | 6.1         |
| Sullivan     | *<br>=1.0              | 1.4      | 39.1     | 0.6<br>*          | 41.1      | 6.0       | 47.1        |
| Unknown      | 71.8                   | 16.6     | 22.2     | <del>,</del>      | 110.6     | 218.3     | 328.9       |
| Total        | 99.1                   | 42.4     | 100.2    | 5.7               | 247.4     | 387.4     | 634.8       |
| VERMONT      |                        |          |          |                   |           |           |             |
| Addison      | *                      | 0.4      | 5.1      | *                 | 5.5       | 0.7       | 6.2         |
| Bennington   | *                      | 0.4      | 3.4      | *                 | 3.8       | 10.7      | 14.5        |
| Caledonia    | 7.7                    | 2.0      | 9.1      | 1.1               | 19.9      | 6.3       | 26.2        |
| Chittenden   | *                      | 0.9      | 1.0      | *                 | 1.9       | 0.8       | 2.7         |
| Essex        | 5.8                    | 0.8      | 0.8      | 0.4               | 7.8       | 71.1      | 78.9        |
| Franklin     | 0.2                    | 5.6      | 6.8      | *                 | 12.6      | 2.0       | 14.6        |
| Grand Isle   | *                      | *        | *        | *                 | *         | *         | *           |
| Lamoille     | 0.9                    | 2.8      | 3.4      | 0.4               | 7.5       | 3.3       | 10.8        |
| Orange       | 1.1                    | 3.8      | 6.3      | 1.9               | 13.1      | 1.9       | 15.0        |
| Orleans      | 7.6                    | 9.8      | 2.9      | 0.4               | 20.7      | 7.2       | 27.9        |
| Rutland      | *                      | 2.0      | 12.4     | *                 | 14.4      | 2.8       | 17.2        |
| Washington   | 1.3                    | 2.0      | 6.5      | 1.0               | 10.8      | 2.2       | 13.0        |
| Windham      | 0.2                    | 1.6      | 7.6      | *                 | 9.4       | 2.3       | 11.7        |
| Windsor      | 0.2                    | 2.2      | 5.3      | 0.2               | 7.9       | 0.3       | 8.2         |
| Unknown      | 26.0                   | 12.8     | 15.8     | *                 | 54.6      | 104.1     | 158.7       |
| Total        | 51.0                   | 46.7     | 86.4     | 5.4               | 189.9     | 215.7     | 405.6       |

<sup>\*</sup>less than 125 green tons. Counties with no reported production are not listed.

Table GT8.—Pulpwood production from roundwood in southern New England, by state, county and type, 2001

|               |             |                      | Softwood |                    |                 |                    |                      |
|---------------|-------------|----------------------|----------|--------------------|-----------------|--------------------|----------------------|
| County        | Spruce/ fir | Hemlock/<br>Tamarack | Pine     | Mixed<br>softwoods | Total softwoods | Total<br>hardwoods | Total<br>all species |
| CONNECTICUT   |             |                      | Thou     | sand green tons    | S ·             |                    |                      |
| Fairfield     | 0.0         | 0.0                  | 0.0      | 0.0                | 0.0             | 0.0                | 0.0                  |
| Hartford      | 0.0         | 2.6                  | 0.0      | 0.0                | 2.6             | 0.0                | 2.6                  |
| Litchfield    | 0.0         | 0.2                  | 0.0      | 0.0                | 0.2             | 0.0                | 0.2                  |
| New Haven     | 0.0         | 0.2                  | 0.0      | 0.0                | 0.2             | 0.0                | 0.2                  |
| Tolland       | 0.0         | 0.2                  | 0.0      | 0.0                | 0.2             | 0.0                | 0.2                  |
| Windham       | 0.0         | 0.2                  | 0.0      | 0.0                | 0.2             | 0.0                | 0.2                  |
| New London    | 0.0         | 0.0                  | 0.0      | 0.0                | 0.0             | 0.0                | 0.0                  |
| Unknown       | *           | 3.2                  | *        | 0.0                | 3.2             | 1.8                | 5.0                  |
| Total         | *           | 6.6                  | *        | 0.0                | 6.6             | 1.8                | 8.4                  |
| MASSACHUSETTS |             |                      |          |                    |                 |                    |                      |
| Berkshire     | 0.0         | 1.2                  | *        | 0.0                | 1.2             | 0.0                | 1.2                  |
| Essex         | 0.0         | 0.0                  | *        | 0.0                | 0.0             | *                  | *                    |
| Franklin      | 0.0         | 0.8                  | 0.0      | 0.0                | 0.8             | *                  | 0.8                  |
| Hampden       | 0.0         | 8.2                  | 0.0      | 0.0                | 8.2             | *                  | 8.2                  |
| Worchester    | *           | 0.6                  | 16.0     | *                  | 16.6            | 0.2                | 16.8                 |
| Unknown       | 0.2         | 5.8                  | 0.8      | 0.0                | 6.8             | 0.0                | 6.8                  |
| Total         | 0.2         | 16.6                 | 16.8     | 0.0                | 33.6            | 0.2                | 33.8                 |
| RHODE ISLAND  |             |                      |          |                    |                 |                    |                      |
| Unknown       | *           | 0.0                  | 1.0      | 0.0                | 0.1             | *                  | 1.1                  |
| Total         | *           | 0.0                  | 1.0      | 0.0                | 0.1             | *                  | 1.1                  |

<sup>\*</sup> less than 125 green tons. Counties with no reported production are not listed.

Table GT9.—Pulpwood production from roundwood in New York, by county and type, 2001

|                         |            |          | Softwood | -                |            |            |             |
|-------------------------|------------|----------|----------|------------------|------------|------------|-------------|
| County                  | Spruce/fir | Hemlock/ | Pine     | Mixed            | Total      | Total      | Total       |
|                         |            | Tamarack |          | softwoods        | softwoods  | hardwoods  | all species |
|                         |            |          | T        | Thousand green t | ons        |            |             |
| Albany                  | 0.0        | 0.4      | 1.3      | 0.0              | 1.7        | 0.5        | 2.2         |
| Allegheny               | 0.0        | 0.0      | 0.0      | 2.7              | 2.7        | 0.0        | 2.7         |
| Broome                  | *          | 2.6      | 8.6      | 0.0              | 11.2       | 2.3        | 13.5        |
| Cattaraugus             | 0.0        | 0.0      | 0.0      | 15.8             | 15.8       | 9.8        | 25.6        |
| Chautauqua              | 0.0        | 0.0      | 0.0      | 0.0              | 0.0        | 2.6        | 2.6         |
| Chemung                 | 0.0        | 0.8      | 2.1      | 0.0              | 2.9        | 2.0        | 4.9         |
| Chenango                | 0.2        | 4.0      | *        | 0.0              | 4.2        | 0.0        | 4.2         |
| Clinton                 | 0.0        | 4.6      | 10.1     | 0.0              | 14.7       | 33.7       | 48.4        |
| Columbia                | 0.0        | 0.2      | *        | 0.0              | 0.2        | 0.5        | 0.7         |
| Cortland                | 0.0        | *        | 0.0      | 0.0              | *          | 1.4        | 1.4         |
| Delaware                | 0.0        | 3.2      | 1.3      | 0.0              | 4.5        | 29.4       | 33.9        |
| Dutchess                | *          | 0.0      | 0.0      | 0.0              | *          | 0.0        | *           |
| Essex                   | 5.2        | 26.4     | 31.7     | 0.0              | 63.3       | 73.6       | 136.9       |
| Franklin                | 0.7        | 7.8      | 14.8     | 0.0              | 23.3       | 54.7       | 78.0        |
| Fulton                  | 0.2        | 15.0     | 12.0     | 0.0              | 27.2       | 14.3       | 41.5        |
| Greene                  | 0.0        | 1.0      | 0.6      | 0.0              | 1.6        | 0.3        | 1.9         |
| Hamilton                | 1.8        | 5.8      | 1.0      | 0.0              | 8.6        | 49.4       | 58.0        |
| Herkimer                | 0.4        | 4.4      | 1.0      | 0.0              | 5.8        | 7.3        | 13.1        |
| Jefferson               | *          | 3.0      | 0.4      | 0.0              | 3.4        | 0.3        | 3.7         |
| Lewis                   | 0.7        | 9.2      | 1.7      | 0.0              | 11.6       | 3.6        | 15.2        |
| Madison                 | 0.0        | 0.2      | 0.0      | 0.0              | 0.2        | 0.0        | 0.2         |
| Monroe                  | 0.0        | 0.2      | 0.6      | 0.0              | 0.8        | 0.3        | 1.1         |
| Montgomery              | 0.0        | 0.2      | 0.0      | 0.0              | 0.2        | 0.5        | 0.7         |
| Oneida                  | *          | 2.0      | 0.4      | 0.0              | 2.4        | 5.7        | 8.1         |
| Onondaga                | 0.0        | 0.2      | 0.0      | 0.0              | 0.2        | 0.0        | 0.2         |
| Oswego                  | *          | 12.2     | 0.0      | 0.0              | 12.4       | 0.0        | 12.4        |
| Otsego                  | 0.2        | 2.8      | 1.1      | 0.0              | 4.1        | 0.5        | 4.6         |
| Rensselaer              | 0.2        | 6.4      | 14.3     | 0.0              | 21.1       | 21.3       | 42.4        |
| Rockland                | 0.4        | *        | 0.0      | 0.0              | 0.0        | 0.0        | 0.0         |
|                         | 0.4        | 12.6     | 29.6     | 0.0              | 42.6       | 45.9       | 88.5        |
| Saratoga<br>Schenectady | 0.4        | 0.0      | ×        | 0.0              | *          | 0.0        | *           |
| Schohairie              | 0.0        | 1.8      | 0.2      | 0.0              | 2.0        | 0.0        | 2.0         |
| St.Lawrence             | 0.0        | 18.4     | 11.6     | 0.0              | 30.9       | 163.0      | 193.9       |
| Steuben                 | 0.9        | 3.0      | 2.1      | 0.0              | 5.1        | 0.5        |             |
|                         |            |          |          |                  |            |            | 5.6         |
| Sullivan                | 0.0        | 1.4      | 0.0      | 0.0              | 1.4<br>0.2 | 0.0        | 1.4<br>3.3  |
| Tioga                   |            | 0.0      | 0.2      | 0.0              | 0.2<br>7.4 | 3.1<br>0.0 |             |
| Tompkins                | 0.0        | 0.0      | 7.4      | 0.0              |            |            | 7.4<br>0.4  |
| Ulster                  | 0.0        | 0.4      | 0.0      | 0.0              | 0.4        | 0.0        | 64.6        |
| Warren                  | 0.9        | 16.2     | 20.7     | 0.0              | 37.8       | 26.8       |             |
| Washington              | 0.0        | 15.0     | 8.0      | 0.0              | 23.0       | 25.3       | 48.3        |
| Wayne                   | 0.0        | 0.0      | 0.0      | 0.0              | 0.0        | 1.8        | 1.8         |
| Unknown                 | 0.0        | 0.0      | 0.2      | 0.0              | 0.2        | 1.9        | 2.1         |
| Total                   | 12.0       | 181.4    | 183.2    | 18.5             | 395.1      | 582.3      | 977.4       |

<sup>\*</sup> less than 125 green tons. Counties with no reported production are not listed.

Table GT10.—Pulpwood production from roundwood in Delaware, Maryland, and New Jersey, by county and type, 2001

|                |       | Softwood  |                    |           |             |
|----------------|-------|-----------|--------------------|-----------|-------------|
| County         | Pine  | Mixed     | Total              | Total     | Total       |
| · ·            |       | Softwoods | Softwood           | Hardwoods | all Species |
| DELAWARE       |       |           | Thousand green ton | s         |             |
| Kent           | *     | 0.0       | *                  | *         | *           |
| New Castle     | 0.0   | 0.0       | 0.0                | *         | *           |
| Unknown        | 0.0   | 0.0       | 0.0                | *         | *           |
| Total          | 0.0   | 0.0       | *                  | *         | *           |
| MARYLAND       |       |           |                    |           |             |
| Allegheny      | 1.3   | 1.7       | 3.0                | 52.3      | 55.3        |
| Anne Arundel   | 5.7   | *         | 5.7                | 14.8      | 20.5        |
| Baltimore      | 0.8   | *         | 0.8                | 15.3      | 16.1        |
| Calvert        | 0.8   | 1.0       | 1.8                | 1.8       | 3.6         |
| Carroll        | 0.8   | 0.0       | 0.8                | 3.4       | 4.2         |
| Cecil          | 0.2   | 1.1       | 1.3                | 0.3       | 1.6         |
| Charles        | 16.5  | 0.0       | 16.5               | 7.8       | 24.3        |
| Dorchester     | 0.0   | 0.6       | 0.6                | 3.1       | 3.7         |
| Frederick      | 2.1   | 0.0       | 2.1                | 18.0      | 20.1        |
| Garrett        | 0.0   | 5.7       | 5.7                | 85.8      | 91.5        |
| Harford        | 0.2   | 0.0       | 0.2                | 2.8       | 3.0         |
| Howard         | 0.4   | 0.0       | 0.4                | 1.6       | 2.0         |
| Montgomery     | 0.2   | 0.0       | 0.2                | 1.7       | 1.9         |
| Prince Georges | 0.4   | 0.0       | 0.4                | 2.2       | 2.6         |
| Queen Annes    | *     | 0.0       | *                  | 0.0       | *           |
| St. Marys      | 11.8  | 17.7      | 29.5               | 11.1      | 40.6        |
| Washington     | 0.0   | 2.9       | 2.9                | 4.7       | 7.6         |
| Wicomico       | 91.8  | 0.0       | 91.8               | 11.2      | 103.0       |
| Unknown        | 0.0   | 0.0       | 0.0                | 0.0       | 0.0         |
| Total          | 133.0 | 30.7      | 163.7              | 237.9     | 401.6       |
| NEW JERSEY     |       |           |                    |           |             |
| Atlantic       | 2.4   | 0.0       | 2.4                | 0.1       | 2.5         |
| Camden         | 12.5  | 0.0       | 12.5               | 1.2       | 13.7        |
| Cape May       | 0.8   | 0.0       | 0.8                | 0.0       | 0.8         |
| Gloucester     | 0.1   | 0.0       | 0.1                | 0.0       | 0.1         |
| Mercer         | 0.2   | 0.0       | 0.2                | 0.0       | 0.2         |
| Ocean          | 11.6  | 0.0       | 11.6               | 0.0       | 11.6        |
| Warren         | 4.2   | 0.0       | 4.2                | 0.0       | 4.2         |
| Total          | 31.8  | 0.0       | 31.8               | 1.3       | 33.1        |

<sup>\*</sup> less than 125 green tons. Counties with no reported production are not listed.

Table GT11.—Pulpwood production from roundwood in Pennsylvania, by county and type, 2001

|                 |          | Sof      | twood     |            |           |             |
|-----------------|----------|----------|-----------|------------|-----------|-------------|
| County          | Hemlock/ | Pine     | Mixed     | Total      | Total     | Total       |
|                 | Tamarack |          | softwoods | softwoods  | hardwoods | all species |
|                 |          |          |           | green tons |           |             |
| Adams           | 0.0      | 5.7      | 1.0       | 6.7        | 18.8      | 25.5        |
| Allegheny       | 0.0      | 0.0      | 0.0       | 0.0        | 14.3      | 14.3        |
| Bedford         | 0.0      | 4.6      | 10.1      | 14.7       | 43.2      | 57.9        |
| Berks           | 0.0      | 1.0      | 0.0       | 1.0        | 8.4       | 9.4         |
| Blair           | 0.0      | 0.2      | 2.3       | 2.5        | 6.3       | 8.8         |
| Bradford        | 0.8      | 1.3      | 0.0       | 2.1        | 6.3       | 8.4         |
| Bucks           | 0.0      | *        | 0.0       | *          | 0.0       | *           |
| Cambria         | 2.0      | 2.1      | 2.1       | 6.2        | 10.0      | 16.2        |
| Cameron         | 0.8      | 0.6      | 0.0       | 1.4        | 0.0       | 1.4         |
| Carbon          | 0.0      | 0.2      | 0.0       | 0.2        | 0.3       | 0.5         |
| Centre          | 1.0      | 7.4      | 0.2       | 8.6        | 16.4      | 25.0        |
| Chester         | 0.0      | 0.4      | 0.0       | 0.4        | 0.0       | 0.4         |
| Clearfield      | 7.8      | 9.7      | 8.0       | 25.5       | 87.3      | 112.8       |
| Clinton         | 0.8      | 2.3      | 0.4       | 3.5        | 3.7       | 7.2         |
| Columbia        | 0.0      | 1.1      | 0.0       | 1.1        | 2.9       | 4.0         |
| Crawford        | 0.0      | 0.0      | 0.0       | 0.0        | 70.0      | 70.0        |
| Cumberland      | 0.0      | 1.5      | 0.0       | 1.5        | 7.5       | 9.0         |
| Dauphin         | 0.0      | 1.9      | 0.0       | 1.9        | 21.1      | 23.0        |
| Delaware        | 0.0      | 0.2      | 0.0       | 0.2        | 2.8       | 3.0         |
| Elk             | 3.8      | 3.4      | 0.0       | 7.2        | 57.1      | 64.3        |
| Erie            | 0.0      | 0.0      | 0.0       | 0.0        | 2.6       | 2.6         |
| Fayette         | 0.0      | *        | 0.0       | *          | 10.9      | 10.9        |
| Forest          | 2.4      | 1.5      | 0.0       | 3.9        | 49.2      | 53.1        |
| Franklin        | 0.0      | 1.0      | 0.0       | 1.0        | 27.2      | 28.2        |
| Fulton          | 0.0      | 10.3     | 6.5       | 16.8       | 18.8      | 35.6        |
| Greene          | 0.0      | *        | 0.0       | *          | 12.7      | 12.7        |
| Huntington      | 0.0      | 15.8     | 1.0       | 16.8       | 38.2      | 55.0        |
| Indiana         | 1.0      | 1.0      | 2.0       | 4.0        | 11.6      | 15.6        |
| Jefferson       | 6.8      | 5.5      | 0.0       | 12.3       | 26.2      | 38.5        |
| Juniata         | 0.0      | 12.4     | 0.0       | 12.4       | 14.6      | 27.0        |
| Lackawanna      | 0.4      | *        | 0.0       | 0.4        | 15.4      | 15.8        |
| Lancaster       | 0.0      | *        | 0.0       | *          | 3.4       | 3.4         |
| Lawrence        | 0.0      | 0.0      | 0.0       | 0.0        | 0.8       | 0.8         |
| Lebanon         | 0.0      | 0.2      | 0.0       | 0.2        | 3.6       | 3.8         |
| Lehigh          | 0.0      | 0.0      | 0.0       | 0.0        | 4.2       | 4.2         |
| Luzerine        | 0.6      | 1.0      | 0.0       | 1.6        | 3.2       | 4.8         |
| Lycoming        | 1.2      | 7.2      | 0.0       | 8.4        | 7.6       | 16.0        |
| McKean          | 0.8      | 0.6      | 0.0       | 1.4        | 49.2      | 50.6        |
| Mercer          | 0.0      | 4.8      | 0.4       | 5.2        | 19.0      | 24.2        |
| Mifflin         | 0.0      | 1.7      | 0.0       | 1.7        | 20.1      | 21.8        |
| Monroe          | 0.0      | 0.0      | 0.0       | 0.0        | 2.4       | 2.4         |
|                 | 0.0      | 0.0<br>* | 0.0       | v.u<br>*   | 0.0       | ∠.⁴<br>*    |
| Montgomery      |          |          | 0.0       |            | 0.0       | 2.1         |
| Montour         | 0.0      | 2.1      |           | 2.1        | 6.7       | 7.1         |
| Northcumberland | 0.0      | 0.4      | 0.0       | 0.4        |           | 10.3        |
| Perry           | 0.0      | 7.4      | 0.0       | 7.4        | 2.9       | 10.3        |

Continued

Table GT11.—Continued

|              |                      | Sof   | twood              |                    |                    |                      |
|--------------|----------------------|-------|--------------------|--------------------|--------------------|----------------------|
| County       | Hemlock/<br>Tamarack | Pine  | Mixed<br>softwoods | Total<br>softwoods | Total<br>hardwoods | Total<br>all species |
|              |                      |       | Thousand           | green tons         |                    |                      |
| Pike         | 0.0                  | 0.2   | 0.0                | 0.2                | 2.5                | 2.7                  |
| Potter       | 0.0                  | 0.0   | 0.0                | 0.0                | 14.6               | 14.6                 |
| Schuylkill   | 0.0                  | 3.6   | 0.0                | 3.6                | 89.9               | 93.5                 |
| Snyder       | 0.0                  | 0.8   | 0.0                | 0.8                | 3.9                | 4.7                  |
| Somerset     | 0.0                  | 0.8   | 1.5                | 2.3                | 72.8               | 75.1                 |
| Sullivan     | 1.2                  | 13.1  | 0.0                | 14.3               | 26.8               | 41.1                 |
| Susquehanna  | 0.8                  | 0.6   | 0.0                | 1.4                | 6.0                | 7.4                  |
| Tioga        | 0.0                  | 6.3   | 0.0                | 6.3                | 21.5               | 27.8                 |
| Union        | 0.0                  | 1.3   | 0.0                | 1.3                | 0.8                | 2.1                  |
| Warren       | 0.8                  | 0.6   | 0.0                | 1.4                | 16.7               | 18.1                 |
| Washington   | 0.0                  | *     | 2.0                | 2.0                | 7.8                | 9.8                  |
| Wayne        | 1.6                  | *     | 0.0                | 1.6                | 12.5               | 14.1                 |
| Westmoreland | 0.0                  | 0.0   | 0.0                | 0.0                | 8.1                | 8.1                  |
| Wyoming      | 0.6                  | 4.4   | 0.0                | 5.0                | 13.3               | 18.3                 |
| York         | 0.0                  | 4.2   | 0.0                | 4.2                | 17.4               | 21.6                 |
| Unknown      | 7.8                  | 34.0  | 9.3                | 51.1               | 234.3              | 285.4                |
| Total        | 43.0                 | 186.4 | 46.8.8             | 276.2              | 1,275.8            | 1,552.0              |

<sup>\*</sup> less than 125 green tons. Counties with no reported production are not listed.

Table GT12.—Pulpwood production from roundwood in West Virginia, by county and type, 2001

|                      |      | Softwood  |                  |           |             |
|----------------------|------|-----------|------------------|-----------|-------------|
| County               | Pine | Mixed     | Total            | Total     | Total       |
|                      |      | softwoods | softwoods        | hardwoods | all species |
|                      |      |           | - Thousand green | tons      |             |
| Barbour              | *    | *         | *                | 31.7      | 31.7        |
| Berkeley             | 0.0  | 5.1       | 5.1              | 13.8      | 18.9        |
| Boone                | 1.5  | 0.0       | 1.5              | 16.9      | 18.4        |
| Braxton              | 0.6  | 0.0       | 0.6              | 13.8      | 14.4        |
| Cabell               | 1.7  | 0.2       | 1.9              | 2.3       | 4.2         |
| Calhoun              | 1.5  | 0.0       | 1.5              | 8.3       | 9.8         |
| Clay                 | 0.0  | 0.0       | 0.0              | 9.9       | 9.9         |
| Doddridge            | 1.5  | 0.0       | 1.5              | 17.9      | 19.4        |
| Fayette              | 0.0  | 0.0       | 0.0              | 3.9       | 3.9         |
| Gilmer               | 0.0  | 0.0       | 0.0              | 6.0       | 6.0         |
| Grant                | 0.4  | 0.6       | 1.0              | 35.6      | 36.6        |
| Greenbrier           | 0.0  | 0.0       | 0.0              | 6.0       | 6.0         |
| Hampshire            | 0.0  | 17.3      | 17.3             | 38.0      | 55.3        |
| Hancock              | 0.0  | 0.0       | 0.0              | 6.8       | 6.8         |
| Hardy                | 0.0  | 12.4      | 12.4             | 33.5      | 45.9        |
| Harrison             | *    | 0.0       | *                | 25.7      | 25.7        |
| Jackson              | 4.8  | 4.9       | 9.7              | 6.0       | 15.7        |
| Kanawha              | 2.1  | *         | 2.1              | 10.1      | 12.2        |
| Lewis                | 0.8  | 0.0       | 0.8              | 29.4      | 30.2        |
| Lincoln              | 1.7  | 0.0       | 1.7              | 8.1       | 9.8         |
| Logan                | 0.0  | 0.0       | 0.0              | 11.4      | 11.4        |
| Marion               | *    | *         | *                | 32.0      | 32.0        |
| Marshall             | 0.0  | 0.0       | 0.0              | 1.6       | 1.6         |
| Mason                | 5.5  | 2.9       | 8.4              | 9.9       | 18.3        |
| McDowell             | 0.0  | 0.0       | 0.0              | 5.7       | 5.7         |
| Mineral              | 0.0  | 6.5       | 6.5              | 36.4      | 42.9        |
| Mingo                | 0.0  | 0.0       | 0.0              | 0.0       | 0.0         |
|                      | 0.0  | 0.0       | 0.0              | 31.7      | 31.9        |
| Monongalia<br>Monong | 0.2  | 9.7       | 9.7              | 17.7      | 27.4        |
| Morgan<br>Nicholas   |      | 0.0       | 1.5              | 28.3      | 29.8        |
| Ohio                 | 1.5  |           | 0.0              | 8.8       | 8.8         |
| Pendleton            | 0.0  | 0.0       |                  |           | 7.0         |
|                      | 0.0  | 0.2       | 0.2              | 6.8       |             |
| Pleasant             |      | 2.1       | 2.1              | 1.8       | 3.9         |
| Pocahontas           | 0.6  | 0.0       | 0.6              | 29.9      | 30.5        |
| Preston              | 1.1  | 0.8       | 1.9              | 78.3      | 80.2        |
| Putnam               | 7.4  | 2.3       | 9.7              | 12.5      | 22.2        |
| Raleigh              | 0.0  | 0.0       | 0.0              | 8.8       | 8.8         |
| Randolph             | 0.4  | 2.9       | 3.3              | 161.7     | 165.0       |
| Ritchie              | 5.7  | 7.2<br>*  | 12.9             | 20.5      | 33.4        |
| Roane                | 0.4  |           | 0.4              | 3.9       | 4.3         |
| Taylor               | 0.8  | 0.0       | 0.8              | 11.2      | 12.0        |
| Tucker               | 0.0  | 0.2       | 0.2              | 47.3      | 47.5        |
| Tyler                | 0.8  | 0.0       | 0.8              | 5.5       | 6.3         |
| Upshur               | *    | 0.0       | *                | 41.1      | 41.1        |
| Wayne                | 0.0  | 0.0       | 0.0              | *         | *           |
| Webster              | 0.8  | 0.0       | 0.8              | 39.3      | 40.1        |
| Wetzel               | 0.0  | 0.0       | 0.0              | 13.0      | 13.0        |
| Wirt                 | 2.1  | 10.0      | 12.1             | 9.9       | 22.0        |
| Wood                 | 5.7  | 9.3       | 15.0             | 7.8       | 22.8        |
| Wyoming              | 0.0  | 0.0       | 0.0              | 1.0       | 1.0         |
| Unknown              | 30.0 | 0.0       | 30.0             | 570.0     | 600.0       |
| Total                | 79.6 | 94.6      | 174.2            | 1577.5    | 1751.7      |

<sup>\*</sup> less than 125 green tons. Counties with no reported production are not listed.

Table GT13.—Pulpwood production from roundwood in Ohio, by county and type, 2001

|            |      | Softwood  |                |           |             |
|------------|------|-----------|----------------|-----------|-------------|
| County     | Pine | Mixed     | Total          | Total     | Total       |
|            |      | softwoods | softwoods      | hardwoods | all species |
|            |      |           | Thousand green | n tons    |             |
| Adams      | 0.4  | 0.0       | 0.4            | 4.9       | 5.3         |
| Ashland    | 0.0  | 0.0       | 0.0            | 2.6       | 2.6         |
| Ashtabula  | 0.0  | 0.0       | 0.0            | 0.3       | 0.3         |
| Athens     | 0.6  | 0.0       | 0.6            | 4.4       | 5.0         |
| Belmont    | 5.1  | 0.0       | 5.1            | 21.1      | 26.2        |
| Carroll    | 0.8  | 0.0       | 0.8            | 3.4       | 4.2         |
| Clermont   | 0.4  | 0.0       | 0.4            | 2.3       | 2.7         |
| Clinton    | 0.4  | 0.0       | 0.4            | 2.1       | 2.5         |
| Columbiana | 0.0  | 0.0       | 0.0            | 0.5       | 0.5         |
| Coshocton  | 6.5  | 0.0       | 6.5            | 21.1      | 27.6        |
| Cuyahoga   | 0.0  | 0.0       | 0.0            | 23.7      | 23.7        |
| Delaware   | 0.0  | 0.0       | 0.0            | 1.3       | 1.3         |
| Erie       | 0.0  | 0.0       | 0.0            | 0.3       | 0.3         |
| Fairfield  | 0.4  | 0.0       | 0.4            | 4.7       | 5.1         |
| Franklin   | 0.0  | 0.0       | 0.0            | 7.0       | 7.0         |
| Fulton     | 10.1 | 0.0       | 10.1           | 2.1       | 12.2        |
| Gallia     | 4.6  | 2.5       | 7.1            | 22.4      | 29.5        |
| Geauga     | 0.0  | 0.0       | 0.0            | 4.7       | 4.7         |
| Guernsey   | 0.0  | 0.0       | 0.0            | 8.8       | 8.8         |
| Hamilton   | 0.4  | 0.0       | 0.4            | 4.9       | 5.3         |
| Hardin     | 0.0  | 0.0       | 0.0            | *         | *           |
| Harrison   | 0.8  | 0.0       | 0.8            | 12.7      | 13.5        |
| Highland   | 0.6  | 0.0       | 0.6            | 7.5       | 8.1         |
| Hocking    | 1.9  | 0.0       | 1.9            | 13.5      | 15.4        |
| Holmes     | 0.0  | 0.0       | 0.0            | 0.8       | 0.8         |
| Huron      | 0.0  | 0.0       | 0.0            | 4.9       | 4.9         |
| Jackson    | 8.2  | 0.0       | 8.2            | 74.9      | 83.1        |
| Jefferson  | 0.0  | 0.0       | 0.0            | 2.3       | 2.3         |
| Knox       | 0.0  | 0.0       | 0.0            | *         | *           |
| Lake       | 0.0  | 0.0       | 0.0            | 7.8       | 7.8         |
| Lawrence   | 3.0  | 0.0       | 3.0            | 37.4      | 40.4        |
| Licking    | 8.2  | 0.0       | 8.2            | 4.9       | 13.1        |
| Lorain     | 0.0  | 0.0       | 0.0            | 8.6       | 8.6         |
| Lucas      | 0.0  | 0.0       | 0.0            | 1.3       | 1.3         |
| Madison    | 0.4  | 0.0       | 0.4            | 2.1       | 2.5         |
| Mahoning   | 0.0  | 0.0       | 0.0            | 2.1       | 2.1         |
| Medina     | 0.0  | 0.0       | 0.0            | 10.7      | 10.7        |
| Meigs      | 0.8  | 7.0       | 7.8            | 13.6      | 21.4        |
| Monroe     | 0.0  | 0.0       | 0.0            | *         | *           |
| Montgomery | 0.4  | 0.0       | 0.4            | 4.9       | 5.3         |
| Morgan     | 1.0  | 0.0       | 1.0            | 4.2       | 5.2         |
| Morrow     | 0.0  | 0.0       | 0.0            | 0.3       | 0.3         |
| Muskingum  | 3.6  | 0.0       | 3.6            | 0.8       | 4.4         |
| Noble      | 0.0  | 0.0       | 0.0            | 17.4      | 17.4        |
| Perry      | 0.6  | 0.0       | 0.6            | 9.9       | 10.5        |

Continued

Table GT13.—Continued

|            |      | Softwood           |                    |                    |                      |
|------------|------|--------------------|--------------------|--------------------|----------------------|
| County     | Pine | Mixed<br>softwoods | Total<br>softwoods | Total<br>hardwoods | Total<br>all species |
|            |      |                    | Thousand green     |                    |                      |
| Pickaway   | 0.6  | 0.0                | 0.6                | 14.6               | 15.2                 |
| Pike       | 4.6  | 0.0                | 4.6                | 46.0               | 50.6                 |
| Portage    | 0.0  | 0.0                | 0.0                | 4.9                | 4.9                  |
| Richland   | 0.0  | 0.0                | 0.0                | 1.6                | 1.6                  |
| Ross       | 0.8  | 0.0                | 0.8                | 46.8               | 47.6                 |
| Sandusky   | 0.0  | 0.0                | 0.0                | *                  | *                    |
| Scioto     | 5.1  | 0.2                | 5.3                | 51.5               | 56.8                 |
| Stark      | 0.0  | 0.0                | 0.0                | 12.7               | 12.7                 |
| Summit     | 0.8  | 0.0                | 0.8                | 14.6               | 15.4                 |
| Trumbull   | 0.0  | 0.0                | 0.0                | 28.1               | 28.1                 |
| Tuscarawas | 0.8  | 0.0                | 0.8                | 22.6               | 23.4                 |
| Vinton     | 5.3  | *                  | 5.3                | 47.6               | 52.9                 |
| Warren     | 1.1  | 0.0                | 1.1                | 4.4                | 5.5                  |
| Washington | 7.2  | 0.2                | 7.4                | 11.2               | 18.6                 |
| Wayne      | 0.0  | 0.0                | 0.0                | 3.9                | 3.9                  |
| Unknown    | 0.0  | 0.2                | 0.2                | 32.0               | 32.2                 |
| Total      | 85.5 | 10.1               | 95.6               | 727.7              | 823.3                |

<sup>\*</sup> less than 125 green tons. Counties with no reported production are not listed.

Table GT14.—Production and receipts of roundwood in the Northeast, by state and type, 2001

| State         | Produce  | d in State | Receive    | d in State |
|---------------|----------|------------|------------|------------|
|               | Softwood | Hardwood   | Softwood   | Hardwood   |
|               |          | Thousand § | green tons |            |
| Connecticut   | 6.6      | 1.9        | *          | *          |
| Delaware      | *        | *          | *          | *          |
| Maine         | 2,170.1  | 5,210.2    | 2,586.2    | 4,885.3    |
| Maryland      | 163.5    | 238.7      | 195.2      | 601.2      |
| Massachusetts | 33.1     | 4.3        | 0.0        | 0.0        |
| New Hampshire | 249.5    | 390.1      | 49.2       | 408.1      |
| New Jersey    | 31.7     | 1.4        | 0.0        | 0.0        |
| New York      | 395.5    | 583.1      | 519.7      | 564.3      |
| Ohio          | 95.0     | 727.7      | 140.3      | 784.1      |
| Pennsylvania  | 279.5    | 1,273.0    | 520.0      | 1,271.2    |
| Rhode Island  | 1.1      | *          | 0.0        | 0.0        |
| Vermont       | 187.3    | 215.2      | 0.0        | 0.0        |
| West Virginia | 174.1    | 1,576.8    | 64.8       | 1,346.3    |
| Totals        | 3,787.0  | 10,222.4   | 4,075.4    | 9,860.5    |

<sup>\*</sup> less than 125 green tons

Table GT15.—Balance of pulpwood roundwood and residue shipments into and out of states, 2001

| State         | Production | Receipts            | Net <sup>a</sup> |
|---------------|------------|---------------------|------------------|
|               | T          | Thousand green tons |                  |
| Connecticut   | 8.5        | 0.0                 | 8.5              |
| Delaware      | *          | 0.0                 | *                |
| Maine         | 8,593.9    | 9103.3              | -509.4           |
| Maryland      | 590.1      | 1,090.9             | -500.8           |
| Massachusetts | 40.7       | 0.0                 | 40.7             |
| New Hampshire | 1,033.0    | 600.9               | 432.1            |
| New Jersey    | 39.5       | 0.0                 | 39.5             |
| New York      | 1,226.1    | 1,291.7             | -65.6            |
| Ohio          | 1,566.4    | 1,918.7             | -352.3           |
| Pennsylvania  | 2,212.7    | 2,669.9             | -457.2           |
| Rhode Island  | 1.1        | 0.0                 | 1.1              |
| Vermont       | 422.6      | 0.0                 | 422.6            |
| West Virginia | 2,132.2    | 1,418.9             | 713.3            |
| Total         | 17,866.8   | 19,523.4            | -226.6           |

<sup>\*</sup>less than 125 green tons

anegative values indicate a net importing state, positive values a net exporting state

Table GT16.—Imports of roundwood into the Northeast, by state (or province) of origin, state of consumption, and type, 2001

|               |                         |                    | Sof       | Softwood |         |          |                         | Hardwood | pood      |          |         |
|---------------|-------------------------|--------------------|-----------|----------|---------|----------|-------------------------|----------|-----------|----------|---------|
| Receiving     | State/Province Hemlock& | Hemlock&           | Mixed     | Pine     | Spruce& | Softwood | Aspen &                 | Oak &    | Other     | Hardwood | Total   |
| State         | of origin               | Tamarack softwoods | softwoods |          | Fir     | Totals   | Yellow-Poplar           | Hickory  | Hardwoods | Totals   | Imports |
|               |                         |                    |           | 1 1 1    | 1 1 1 1 | Thousa   | - Thousand green tons - |          |           |          |         |
| Maine         | Canada                  | 20.1               | 0.4       | 0.4      | 170.6   | 191.5    | 366.6                   | 0.0      | 634.0     | 1,000.6  | 1,192.1 |
| New York      | Canada                  | 31.4               | 0.0       | 5.9      | 0.4     | 37.7     | 0.0                     | 0.0      | 1.0       | 1.0      | 38.7    |
| Ohio          | Kentucky                | 0.0                | 0.0       | 29.5     | 0.0     | 29.5     | 0.0                     | 0.0      | 63.4      | 63.4     | 92.9    |
| Pennsylvania  | Canada                  | 0.0                | 0.0       | 0.0      | 0.0     | 0.0      | 0.0                     | 0.0      | 11.7      | 11.7     | 11.7    |
|               | Virginia                | 0.0                | 0.0       | 103.6    | 0.0     | 103.6    | 0.0                     | 14.0     | 0.3       | 14.3     | 117.9   |
| West Virginia | Kentucky                | 0.0                | 0.0       | 1.0      | 0.0     | 1.0      | 0.0                     | 0.0      | 17.9      | 17.9     | 18.9    |
|               | Virginia                | 0.0                | 0.0       | 3.4      | 0.0     | 3.4      | 0.0                     | 0.0      | 32.5      | 32.5     | 35.9    |
| Total         |                         | 51.5               | 0.4       | 143.8    | 171.0   | 366.7    | 366.6                   | 14.0     | 760.8     | 1,141.4  | 1,508.1 |
|               |                         |                    |           |          |         |          |                         |          |           |          |         |

Table GT17.—Source of imports of manufacturing residues, by state and type, 2001

|              |               |       |               |                  | Res   | Residue type            |         |          |       |       |
|--------------|---------------|-------|---------------|------------------|-------|-------------------------|---------|----------|-------|-------|
| То           | From          |       | Softwood      | poo,             |       |                         | Hard    | Hardwood |       | Total |
|              |               | Chips | Sawdust Other | Other            | Total | Chips                   | Sawdust | Other    | Total |       |
|              |               |       | 1 1 1 1 1 1   | I<br>I<br>I<br>I | Thou  | - Thousand green tons - | tons    |          |       |       |
| Maine        | New Brunswick | 0.0   | 0.0           | 0.0              | 0.0   | 88.1                    | 0.0     | 0.3      | 88.3  | 88.2  |
|              | Quebec        | 54.4  | 0.0           | 0.0              | 54.4  | 25.5                    | 0.0     | 0.0      | 35.7  | 79.9  |
|              | Canada        | 0.0   | 75.6          | 0.0              | 75.6  | 3.8                     | 0.0     | 0.0      | 4.0   | 79.4  |
| New York     | Canada        | 9.0   | 0.0           | 0.0              | 9.0   | 0.0                     | 0.0     | 0.0      | 0.0   | 9.0   |
| Ohio         | Indiana       | 0.0   | 0.0           | 0.0              | 0.0   | 12.2                    | 0.0     | 0.0      | 12.2  | 12.2  |
|              | Kentucky      | 6.4   | 0.0           | 0.0              | 6.4   | 67.5                    | 57.2    | 0.0      | 124.7 | 131.1 |
|              | Tennessee     | 1.8   | 0.0           | 0.0              | 1.8   | 0.0                     | 0.0     | 0.0      |       | 1.8   |
| Pennsylvania | Canada        | 0.0   | 0.0           | 0.0              | 0.0   | 0.5                     | 0.0     | 0.0      | 0.5   | 0.5   |
|              | Virginia      | 2.6   | 0.0           | 0.0              | 2.6   | 21.2                    | 0.0     | 0.0      | 21.2  | 23.8  |
| Total        |               | 101.2 | 75.6          | 0.0              | 141.4 | 218.8                   | 4.0     | 0.3      | 276.1 | 417.5 |

Table GT18.—Exports from the Northeastern region by state to other states and Canada, 2001

|               |          |          |          | То          |            |          |          |          |
|---------------|----------|----------|----------|-------------|------------|----------|----------|----------|
| From          | Alal     | oama     | Kentı    | ıcky        | Louis      | iana     | North (  | Carolina |
|               | Softwood | Hardwood | Softwood | Hardwood    | Softwood   | Hardwood | Softwood | Hardwood |
|               |          |          |          | Thousand gr | een tons - |          |          |          |
| Connecticut   | 0.0      | 0.0      | 0.0      | 0.0         | 0.0        | 0.0      | 0.0      | 0.0      |
| Delaware      | 0.0      | 0.0      | 0.0      | 0.0         | 0.0        | 0.0      | 0.0      | 0.0      |
| Massachusetts | 0.0      | 0.0      | 0.0      | 0.0         | 0.0        | 0.0      | 0.0      | 0.0      |
| Maryland      | 0.0      | 0.0      | 0.0      | 0.0         | 0.0        | 0.0      | 0.0      | 0.0      |
| Maine         | 0.0      | 0.0      | 0.0      | 0.0         | 0.0        | 0.0      | 0.0      | 0.0      |
| New Hampshire | 0.0      | 26.0     | 0.0      | 0.0         | 0.0        | 0.0      | 0.0      | 0.0      |
| New Jersey    | 0.0      | 0.0      | 0.0      | 0.0         | 0.0        | 33.0     | 0.0      | 0.0      |
| New York      | 0.0      | 0.0      | 0.0      | 0.0         | 0.0        | 0.0      | 0.0      | 0.0      |
| Ohio          | 0.0      | 0.0      | 0.0      | 5.8         | 0.0        | 0.0      | 0.0      | 0.0      |
| Pennsylvania  | 0.0      | 0.0      | 0.0      | 0.0         | 0.0        | 0.0      | 0.0      | 0.0      |
| Rhode Island  | 0.0      | 0.0      | 0.0      | 0.0         | 0.0        | 0.0      | 0.0      | 0.0      |
| Vermont       | 0.0      | 0.0      | 0.0      | 0.0         | 0.0        | 0.0      | 0.0      | 0.0      |
| West Virginia | 0.0      | 0.0      | 0.0      | 0.8         | 0.0        | 0.0      | 0.0      | 380.8    |
| Total         | 0.0      | 26.0     | 0.0      | 6.6         | 0.0        | 33.0     | 0.0      | 380.8    |

Table GT18 (continued).—Exports from the Northeastern region by state to other states and Canada, 2001

|               |          |          |          | То           |             |          |          |          |
|---------------|----------|----------|----------|--------------|-------------|----------|----------|----------|
| From          | South    | Carolina | Virg     | inia         | Can         | ada      | Tot      | al       |
|               | Softwood | Hardwood | Softwood | Hardwood     | Softwood    | Hardwood | Softwood | Hardwood |
|               |          |          |          | - Thousand g | reen tons - |          |          |          |
| Connecticut   | 0.0      | 0.0      | 0.0      | 0.0          | 0.0         | 0.0      | 0.0      | 0.0      |
| Delaware      | 0.0      | 0.0      | 0.0      | 0.0          | 0.0         | 0.0      | 0.0      | 0.0      |
| Massachusetts | 0.0      | 0.0      | 0.0      | 0.0          | 3.5         | 0.0      | 3.5      | 0.0      |
| Maryland      | 0.0      | 0.0      | 48.3     | 88.5         | 0.0         | 0.0      | 48.3     | 88.5     |
| Maine         | 0.0      | 0.0      | 0.0      | 0.0          | 1389.0      | 142.0    | 1389.0   | 142.0    |
| New Hampshire | 0.0      | 84.0     | 0.0      | 0.0          | 21.0        | 1.0      | 21.0     | 111.0    |
| New Jersey    | 0.0      | 0.0      | 0.0      | 0.0          | 0.0         | 0.0      | 0.0      | 33.0     |
| New York      | 0.0      | 0.0      | 0.0      | 0.0          | 71.3        | 89.3     | 71.3     | 89.3     |
| Ohio          | 0.0      | 0.0      | 0.0      | 63.0         | 0.0         | 0.0      | 0.0      | 77.5     |
| Pennsylvania  | 0.0      | 0.0      | 0.0      | 0.0          | 2.3         | 0.6      | 2.3      | 1.5      |
| Rhode Island  | 0.0      | 0.0      | 0.0      | 0.0          | *           | 0.0      | 0.0      | 0.0      |
| Vermont       | 0.0      | 0.0      | 0.0      | 0.0          | 194.8       | 100.9    | 194.8    | 252.3    |
| West Virginia | 0.0      | 0.0      | 10.0     | 390.5        | *           | 1.5      | 10.0     | 774.8    |
| Total         | 0.0      | 84.0     | 58.3     | 542.0        | 1681.8      | 487.5    | 1740.0   | 1569.8   |

<sup>\*</sup> less than 125 green tons

Table GT19.—Estimated average annual pulpwood roundwood removals per acre of timberland in the Northeast, 2001

| State         | Acres of timberland (Thousand acres) | Pulpwood harvest<br>(Thousand green tons) | Removals/ acre<br>(Green tons) |
|---------------|--------------------------------------|-------------------------------------------|--------------------------------|
| Connecticut   | 1,815                                | 10.0                                      | 0.006                          |
| Delaware      | 376                                  | *                                         | **                             |
| Maine         | 16,952                               | 8,275.5                                   | 0.488                          |
| Maryland      | 2,423                                | 441.0                                     | 0.182                          |
| Massachusetts | 2,965                                | 46.8                                      | 0.016                          |
| New Hampshire | 4,551                                | 714.5                                     | 0.157                          |
| New Jersey    | 1,864                                | 43.0                                      | 0.023                          |
| New York      | 15,406                               | 1,073.5                                   | 0.070                          |
| Ohio          | 7,568                                | 824.5                                     | 0.109                          |
| Pennsylvania  | 15,853                               | 1,581.8                                   | 0.100                          |
| Rhode Island  | 356                                  | 1.5                                       | 0.004                          |
| Vermont       | 4,461                                | 461.3                                     | 0.103                          |
| West Virginia | 11,900                               | 1830.3                                    | 0.154                          |
| Total         | 86,491                               | 15,303.7                                  | 0.177                          |

<sup>\*</sup> less than 125 green tons \*\*less than 0.0003 green tons / acre





Baker, Iris C.; Hansen, Bruce G.; Akers, Melody S. 2005. Pulpwood production and consumption in the Northeast—2001. Resour. Bull. NE-162. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station. 40 p.

This study reports a decrease in pulpwood production by more than 18 percent in the 13 Northeastern states from 1997 to 2001. Pulp production comprised 6.1 million cords of roundwood and almost 1.7 million cords of wood fiber from mill residues. Consumption of pulpwood at mills in the Northeast declined about 7.5 percent during the same period, to 8.8 million cords. Harvesting of trees (roundwood) for pulp was most intense in Maine, where an average 16.6 ft³ of wood was harvested per acre of timberland in 2001.

Keywords: residue, timber output, harvest







Headquarters of the Northeastern Research Station is in Newtown Square, Pennsylvania. Field laboratories are maintained at:

Amherst, Massachusetts, in cooperation with the University of Massachusetts

Burlington, Vermont, in cooperation with the University of Vermont

Delaware, Ohio

Durham, New Hampshire, in cooperation with the University of New Hampshire

Hamden, Connecticut, in cooperation with Yale University

Morgantown, West Virginia, in cooperation with West Virginia University

Parsons, West Virginia

Princeton, West Virginia

Syracuse, New York, in cooperation with the State University of New York, College of Environmental Sciences and Forestry at Syracuse University

Warren, Pennsylvania

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at (202)720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue SW, Washington, DC 20250-9410, or call (202)720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.